Stephanie T. Lanza, PhD

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Current Academic Position: The Pennsylvania State University

2016- *Professor*, Biobehavioral Health
2016- *Professor*, Human Development and Family Studies (courtesy appointment)

Education

2003	**Ph.D.**	Human Development and Family Studies, The Pennsylvania State University
2002	**M.A.S.**	Applied Statistics, The Pennsylvania State University
1998	**M.S.**	Human Development and Family Studies, The Pennsylvania State University
1992	**B.S.**	Mathematical Science, Statistics Option, The University of North Carolina at Chapel Hill
1992	**B.A.**	Psychology, The University of North Carolina at Chapel Hill

Research Interests and Collaborative Skills

I am a **substance use researcher with a specialization in quantitative methods**. My scientific program advances the field of prevention science through the advancement and application of innovative quantitative methods. This work includes extending latent class analysis so that researchers can discover hidden subgroups in their data and understand antecedents and consequences of their membership and translating time-varying effect modeling, which has been described in the statistical literature, for behavioral scientists and solving problems that arise in its application. These models enable scientists to examine regression coefficients as a continuous function of age (to study development or aging) or time (often using intensive longitudinal data). I believe that (a) new methods for analyzing existing data hold enormous potential to unlock critical scientific knowledge, and (b) this potential will not be realized until behavioral and health scientists begin to assimilate and apply them in their research. This philosophy is evidenced by the extensive network of collaborators I have built, which includes statisticians, developmentalists, engineers, psychologists, and psychiatrists, and by my commitment to the dissemination of new methods to behavioral and health scientists everywhere.

I also am a devoted **research administrator**, having held leadership positions in vibrant NIH-funded centers continuously from 2004-2023. This includes serving as the scientific director of The Methodology Center, a NIDA-funded National Center of Excellence, from 2004-2017. During these years I supervised many aspects of Center activities, including research communication and website development, professional development activities, a seed grant program, and the development of software products built in SAS Toolkit, Java, R, and Fortran. From 2017-2023, I served as the director of the Edna Bennett Pierce Prevention Research Center, an interdisciplinary unit with 50 full-time employees, external grants from 18 national institutes, foundations, or government agencies, and an annual budget of approximately $13M. Additionally, from 2018-2021 I was appointed as the inaugural director of Penn State's Consortium to Combat Substance Abuse. I led this University-wide Consortium to coordinate 12 faculty searches, administer a seed grant program and a Community Fellows program, organize annual conferences, and more.

Honors and Awards

2024- Senior Editor, *Journal of Studies on Alcohol and Drugs*
2024-2026 President-elect, Society for Ambulatory Assessment
2022-2025 Edna P. Bennett Faculty Fellow in Prevention Research
2017-2023 C. Eugene Bennett Chair in Prevention Research
2020-2021 Selected Participant, "Changing the Future for Women at Penn State" Leadership Program
2015-2018 Elected Member, Society for Prevention Research Board of Directors
2012-2016 Associate Editor, *Prevention Science*
2014 Society for Prevention Research Friend of ECPN Mentoring Award
2008 Society for Prevention Research Early Career Award
2001-2002 Penn State: Health and Human Development Endowed Graduate Fellowship

Previous Positions

2017-2023 Director, Edna Bennett Pierce Prevention Research Center
2004-2022 Penn State: Scientific Director, The Methodology Center
2018-2021 Penn State: Inaugural Director, Consortium to Combat Substance Abuse
2011-2015 Penn State: Research Associate Professor, Health and Human Development
2014-2015 Penn State: Acting Director, The Methodology Center
2009-2011 Penn State: Senior Research Associate, The Methodology Center
2004-2009 Penn State: Research Associate, The Methodology Center
2003-2004 The University of North Carolina at Chapel Hill: Assistant Professor of Psychology and Investigator, FPG Child Development Institute
2001-2004 Tobacco Etiology Research Network (TERN): Project Statistician
1996-2002 The Pennsylvania State University: Graduate Research Assistant, The Methodology Center
1995-1996 Glaxo-Wellcome Pharmaceuticals, Cary, NC: Statistical Programmer
1992-1995 FGI Inc. Marketing Research, Chapel Hill, NC: Data Analyst

Research Support

Active

Principal Investigator (NIH/NIDA R01 DA057588)
Promoting Rapid Uptake of Multilevel Latent Class Modeling via Best Practices: Investigating Heterogeneity in Daily Substance Use Patterns
Project dates: 7/15/2023-4/30/2028
$3,399,746

Multiple-Principal Investigator (NIH/NIDA T32 DA017629; J. Maggs, MPI)
Prevention and Methodology Training (PAMT) Program
Project dates: 7/1/2021-6/30/2026
$9,228,291

Principal Investigator (Penn State University Strategic Initiative)
Penn State Project CORE (College Relationships and Experiences)
Project dates: 7/1/2022-6/30/2027
$556,000

Investigator (NIH/NHLBI R01 HL158577; PI: H. Schreier)
Prospective, Longitudinal Associations Between Child Maltreatment, Immune Function, and Cardiovascular Disease Risk
Project dates: 1/15/2022-12/31/2025
$2,420,784

Consultant (NIH/NIDA R03 DA060283; PI: K. Perry, University of Oregon)
Longitudinal Effects of Prenatal Cannabis and Tobacco Co-Exposure and Postnatal Adversity on Child Regulation: The Buffering Role of Sensitive Parenting
Project dates: 7/1/2025-6/30/2027

Consultant (NIH/NIMH R44 MH112216; Co-PIs: D. Fox, E. Poleshuck, Fox Learning Systems/University of Rochester)
Development and Randomized Clinical Trial of an App-based Intervention to Reduce Postpartum Depression in High-Risk Women
Project dates: 3/24/2017-2/28/2025
Role: Data Safety Monitoring Board (DSMB) Member 10/1/2022-2/28/2026

Under Review

Multiple-Principal Investigator (NIH/NIDA T32 DA017629; R. Eiden and E. Claus, MPI)
Prevention and Methodology Training (PAMT) Program
Submitted: 5/25/28
$3,830,134

Subcontract PI, Project Co-Investigator (NIH/NIDA R01; PI: Linden-Carmichael) *Simultaneous alcohol and cannabis use in young adults: A micro-randomized trial to reduce substance use and related harms*
Submitted: 10/15/2024 (Impact Score: 38; Percentile: 29)
Resubmitted: 7/1/2025

Methodology Mentor (NIH/NIDA F31; PI: Doroshenko) *Patterns and trends of multidimensional factors associated with opioid use disorders and treatment utilization among youths*
Submitted: 3/13/2024

Methodology Mentor (NIH/NICHD F31; PI: Politte-Corn) Examining neural sensitivity to social threat as a mechanism linking social anxiety and subsequent depressive symptoms across adolescence
Submitted: 4/8/2025 (Impact Score: 36; Percentile: 22)

Consultant (NIH/NIA R03; PI: Yang) *Uncover the age-varying dynamics and differential effects of physical activity and cognitive function from middle to late adulthood*
Submitted: 10/15/2024 (Impact score: 45; Percentile: 32.0)

Completed Research Support (only projects as PI, MPI, or primary sponsor/mentor listed)

2023-2024 Methodology Mentor (PI: M. Politte-Corn) – Identifying Biomarkers of Social Threat Sensitivity and Unique Neurophysiological Profiles Associated with Internalizing Risk in Adolescents – Clinical and Translational Science Institute's Translational Research Training (TL1) Fellowship

2020-2024 Multiple-Principal Investigator (MPI: G. Fosco & S. Lanza) – Hillman Family Foundations: Adolescent Risk for Opioid Initiation: Family and Contextual Factors in Daily Life – $400,000

2018-2024 Primary Mentor (PI: A. Linden-Carmichael) – Simultaneous Alcohol and Marijuana Use: Momentary Influences and Consequences – $838,317 (K01 AA026854)

2023-2024 Primary Sponsor (PI: S. Stull, 8/1/23-6/15/24) – Ruth L. Kirschstein National Research Service Award: The Role of Nondrug Reward in Recovery from Opioid Use Disorder: Intrapersonal and Socio-Spatial Contexts in Daily Life – $77,467 (F31 DA057837)

2020-2023 Primary Mentor (PI: S. Stull) – National Science Foundation Graduate Research Fellowship: Positive Affect, Dynamic Changes, and Hidden Subgroups in Real Time and Context, $138,000 (NSF DGE 1255832)

2015-2022 Scientific Director (2015-2020)/Multiple-Principal Investigator (2020-2022) (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022) – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science, $13,767,158 (P50 DA039838; P50 DA010075)

2015-2022 Principal Investigator (Scientific Project) – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science: Multidimensional and Dynamic Moderation in Drug Abuse and HIV Studies (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022), NIDA – $2,434,457 (P50 DA039838)

2015-2022 **Principal Investigator/Investigator (Core Project)** – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science: Pilot, Mentoring, and Professional Development Core (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022), NIDA – $1,442,496 (P50 DA039838)

2019-2022 **Principal Investigator** – Penn State Cohort Study: To Promote High-Impact Research, Student Engagement, and Health, $400,000 (Penn State University Strategic Initiative)

2020-2021 **Multiple-Principal Investigator** (PI: L. Collins 7/1/2016-12/31/2019; MPI: J. Maggs & S. Lanza 1/1/2020-6/1/2021) – Prevention and Methodology Training (PAMT) Program, $2,767,158 (T32 DA017629)

2020-2022 **Primary Mentor** (PI: A. Hochgraf) – Comorbidity Between Body Dissatisfaction and Substance Use: A Daily Diary Study of Alcohol, Nicotine Vaping, and Cigarette Use Among Young Adults, $72,888 (F31 DA051118)

2020 **Co-Principal Investigator** (PI: P. Griffin) – Solutions for Addiction in Rural Communities (SARC), $25,000 (College of Engineering ERC Preproposal Seed Grant)

2015-2019 **Principal Investigator** – Age-Varying Effects in the Epidemiology of Drug Abuse, $668,760 (R01 DA039854)

2012-2016 **Principal Investigator** – Advancing Tobacco Research by Integrating Systems Science and Mixture Models, $502,754 (R01 CA168676)

2011-2021 **Principal Investigator** (PI through 8/1/17; Co-I thereafter) – Drug Abuse and HIV Prevention Research Methodology Conferences: Summer Institute on Innovative Methods, NIDA - $250,000 (R13 DA020334)

2010-2015 **Principal Investigator (Scientific Project)** – Center for Prevention and Treatment Methodology: Advances in Finite Mixture Modeling for Substance Use and HIV Research (Center PI: Linda Collins), NIDA – $1,026,901 (P50 DA010075)

2010-2015 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development and Technology Transfer Core (Center PI: Linda Collins), NIDA – $1,532,211 (P50 DA010075)

2012 **Principal Investigator** – Joint Modeling of the Effects of Substance Use on Changes in CD4 and on Survival Time of Women with HIV, NIDA – $70,463 (supplement to Women's Interagency HIV Study Collaboration Grant, U01 AI031834)

2005-2010 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development Core (Center PI: Linda Collins), NIDA – $1,078,699 (P50 DA010075)

2005-2010 **Principal Investigator** – Drug Abuse Prevention Research Methodology Conferences: Summer Institute on Longitudinal Methods, NIDA – $125,000 (R13 DA020334)

2007-2009 **Principal Investigator** – Identifying Risk Profiles for Substance Use and Comorbid Behavior, NIDA – $125,730 (R03 DA023032)

2005 **Principal Investigator** – An Investigation of Methods for Risk Assessment and Analysis, Social Science Research Institute Seed Grant, The Pennsylvania State University – $4800

Publications

*Coauthors: * Student; ** Postdoctoral researcher*

Books

Lanza, S. T., & Linden-Carmichael, A. N. (2021). *Time-varying effect modeling for the behavioral, social, and health sciences*. Springer. doi: 10.1007/978-3-030-70944-0

Collins, L. M., & **Lanza**, S. T. (2010). *Latent class and latent transition analysis: With applications in the social, behavioral, and health sciences*. New York: Wiley.

Editor: Journal Special Issue (Peer Reviewed)

Lanza, S. T., Piper, M. E., & Shiffman, S. (Eds.) (2014). New methods for advancing research on tobacco dependence using ecological momentary assessments. *Nicotine and Tobacco Research, 16 Suppl 2. [Funding for issue provided by NIH National Cancer Institute and Office of Behavioral and Social Science Research.]*

Peer-Reviewed Journal Articles

190. **Perry, K. J., Ostrov, J. M., Nickerson, A., Godleski, S., **Lanza**, S. T., Schuetze, P., Eiden, R. D. (in press). Early childhood temperamental and environmental risk factors for callous unemotional traits. *Clinical Psychological Science*.

189. **Hochgraf, A. K., Barry, M. R., **Lanza**, S. T., Jacobsen, M., & Neumark-Sztainer, D. (in press). Constellations of family qualities and links with psychological and behavioral health in adolescence and young adulthood. *Journal of Child and Family Studies*.

188. Lee, H. H., Wilding, H. E., *Dyer, W. G., Sutara, B. N., Lee, S.-H., Linden-Carmichael, A. N., & **Lanza**, S. T. (in press). Genetic susceptibility to depressive symptoms in middle-aged to older americans: Time-varying effects and effect modification by early psychosocial factors. *Social Psychiatry and Psychiatric Epidemiology*.

187. **Lee, S. A., Mukherjee, D., **Lanza**, S. T., & Almeida, D. M. (in press). Longitudinal profiles of affect dynamics in middle and later life: A latent transition analysis. *Psychology and Aging*.

186. Linden-Carmichael, A. N., Chiang, S.-C., *Dyer, W., Bhandari, S., & **Lanza**, S. T. (2025). Comparing subjective effects and intoxication on simultaneous alcohol and cannabis use occasions relative to alcohol- or cannabis-only occasions. *Alcohol: Clinical and Experimental Research, 49*(8), 1818-1827. https://doi.org/10.1111/acer.70101

185. Evans-Polce, R. J., Arterberry, B., **Lanza**, S. T., & Patrick, M. E. (2025). Patterns of substance use on a given day in a national sample of U.S. young adults. *Addictive Behaviors, 168,* 108376. 10.1016/j.addbeh.2025.108376. PMCID: PMC12107437

184. **Sloan, C. J., **Lanza**, S. T., Forrester, E. J., Feinberg, M. E., & Fosco, G. M. (2025). The role of interparental conflict in divergent perceptions of parenting. *Journal of Marriage and Family*. https://doi.org/10.1111/jomf.13108

183. *Stull, S.W., **Lanza**, S.T. (2025). Affect-laden risk profiles derived from two days of EMA predict substance use and quality of life three- and six-months after SUD treatment. *Journal of Substance Use and Addiction Treatment, 170*, 209613. PMCID: PMC11938211.

182. **Stull, S. W., Marsch, L. A., & **Lanza**, S. T. (2025). Daily profiles of nondrug reward and their association with daily outcomes for people in recovery from opioid use disorder: An application of latent profile analysis applied to intensive longitudinal data. *Drug and Alcohol Dependence, 271,* 112646. doi.org/10.1016/j.drugalcdep.2025.112646

    Featured on Recovery Research Institute's July 2025 issue of the Recovery Bulletin

181. **Andrushko, Y. & **Lanza**, S. T. (2024). Exploring resilience and its determinants in the forced migration of Ukrainian citizens: A psychological perspective. *International Journal of Environmental Research and Public Health. 21*(11), 1409. https://doi.org/10.3390/ijerph21111409 PMCID: PMC11593913

180. **Rahal, D., Fosco, G. M., & **Lanza**, S. T. (2024). Associations between affect variability, mean affect, and mental health among college students during the COVID-19 pandemic. *Journal of American College Health, 19,* 1-13. Doi: 10.1080/07448481.2024.2449428. PMCID: PMC12304248

179. **Lanza**, S. T., Linden-Carmichael, A. N., *Wang, D., Bhandari, S., & *Stull, S. W. (2024). A personalized data dashboard to improve compliance with ecological momentary assessments in college students: Protocol for a study to compare EMA as usual to EMA with a data dashboard deployed in a micro-randomized trial. *JMIR Research Protocols, 13*(1). DOI: 10.2196/57664 PMCID: PMC11589493

178. **Rahal, D., **Perry, K. J., & **Lanza**, S. T. (2024). Mental health modulates associations between institutional belonging and substance use risk. *Journal of Studies on Alcohol and Drugs*, *86*, 424-435. https://doi.org/10.15288/jsad.23-00382 PMCID: PMC12081173

177. **Hochgraf, A. K., Fosco, G. M., & **Lanza**, S. T. (2024). Comorbidity between body dissatisfaction and nicotine vaping among young adults in college: A daily diary study. *Journal of American College Health*. doi: 10.1080/07448481.2024.2346354 PMCID: PMC11540870

176. **Rahal, D., Linden-Carmichael, A. N., & **Lanza**, S. T. (2024). Affect variability in relation to alcohol use frequency, intensity, and concurrent cannabis use among college students during the COVID-19 pandemic. *Addiction Research & Theory, 32*(5), 375-383. doi: 10.1080/16066359.2023.2284209 PMCID: PMC11495852

175. *Sloan, C. J., Forrester, E. J., **Lanza**, S. T., Feinberg, M. E., & Fosco, G. M. (2024). Examining profiles of convergence and divergence in reports of parental warmth: Links to adolescent developmental problems. *Development and Psychopathology, 37*(2), 927-943. doi: 10.1017/S0954579424000762. PMCID: PMC11473715

174. Gopalan, M., *Jung, J., *Chiang, S.-C., Linden-Carmichael, A. N., & **Lanza**, S. T. (2024). College students' sense of belonging and alcohol use amidst COVID-19: Evidence from a 21-day daily diary study. *PlosONE*. PMCID: doi: 10.1371/journal.pone.0310496. PMC11614200

173. Toledo, M.J., Zawadzki, M. J., Scott, S. B., Johnson, J. A., Marcusson-Clavertz, D., Kim, J., **Lanza**, S. T., Almeida, D. M. J., Sliwinski, M., & Smyth, J. M. (2024). Exploring the utility of a real-time approach to characterizing within-person fluctuations in everyday stress responses. *Stress and Health, 40*(6), e3501. doi: https://doi.org/10.1002/smi.3501 PMCID: PMC11636429

172. **Lanza**, S. T., Whetzel, C., & Bhandari, S. (2024). Health and well-being among United States college students during the COVID-19 pandemic: A daily diary study. *Interactive Journal of Medical Research, 13e45689.* http://dx.doi.org/10.2196/45689 PMCID: PMC11380054

171. Linden-Carmichael, A. N., *Stull, S. W., *Wang, D., Bhandari, S., & **Lanza**, S. T. (2024). Impact of providing a personalized data dashboard on ecological momentary assessment compliance among college students who use substances: A pilot micro-randomized trial. *JMIR Formative Research,* e60193. doi:10.2196/60193. PMCID: PMC11659699

170. Linden-Carmichael, A. N., *Stull, S. W., & **Lanza**, S. T. (2024). Alcohol and cannabis use in daily lives of college-attending young adults: Does co-use correspond to greater reported pleasure? *Addictive Behaviors, 159,* 108130. PMCID: PMC11381134

169. **Hochgraf, A. K., Berge, J. M., & **Lanza**, S. T. (2024). Age-varying associations between attempts to change weight and suicidal ideation among adolescents in the United States. *Preventive Medicine, 182,* 107946. PMCID: PMC11084873

168. Evans-Polce, R. J., Maggs, J. L., **Lanza**, S. T., & Patrick, M. E. (2024). Negative consequences associated with daily alcohol use as a nonlinear function of number of drinks in a daily diary study. *Drug and Alcohol Dependence, 256,* 111089. PMCID: PMC11862988

167. *Pham, H. T., **Lanza**, S. T., Claus, E. D., Heim, C. M., Noll, J. G., Shenk, C. E., & Schreier, H. M. C. (2024). Sex differences in the roles of nicotine use and puberty on youth C-reactive protein levels: Effects above and beyond adversity. *Brain, Behavior, & Immunity - Health*, 40, 100841. PMCID: PMC11381809 https://doi.org/10.1016/j.bbih.2024.100841

166. *Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (2023). Designing voice interfaces to support mindfulness-based pain management. *Digital Health, 9.* doi: 10.1177/20552076231204418 PMCID: PMC10588404

165. *Stull, S. W., Linden-Carmichael, A. N., Scott, C. K., Dennis, M. L., & **Lanza**, S. T. (2023). Time-varying effect modeling with intensive longitudinal data: Examining dynamic links among craving, affect, self-efficacy, and substance use during addiction recovery. *Addiction*, *118*, 2220-2232. doi: 10.1111/add.16284 PMCID: PMC12186768 [Commissioned paper]

164. Coyne, K. S., Barsdorf, A. I., Mazière, J.-Y., Pierson, R. F., **Lanza, S. T.,** Farrar, J. T., Gelfand, H., Porter, L. N., Schnoll, S. H., & Butler, S. F. (2023). Identification of prescription opioid misuse and abuse behaviors and risk factors in chronic pain patients using the Prescription Opioid Misuse and Abuse Questionnaire (POMAQ). *Current Medical Research and Opinion, 39*, 441-450. doi: 10.1080/03007995.2023.2174343 PMCID: N/A

163. Bray, B. C., *Layland, E. K., *Stull, S. W., Vasilenko, S. A., & **Lanza**, S. T. (2022). Estimating the effects of a complex, multidimensional moderator: An example of latent class moderation to examine differential intervention effects of substance use services. *Prevention Science, 24*, 493-504. doi: 10.1007/s11121-022-01448-3. PMCID: PMC10090219

162. **Cloutier, R. M., Calhoun, B. H., **Lanza**, S. T., & Linden-Carmichael, A. N. (2022). Assessing subjective cannabis effects in daily life with contemporary young adult language. *Drug and Alcohol Dependence, 230*(1), 109205. doi: 10.1016/j.drugalcdep.2021.109205. PMCID: PMC8714699

161. Gopalan, M., Linden-Carmichael, A. N., & **Lanza**, S. T. (2022). College students' sense of belonging and mental health amidst the COVID-19 pandemic. *Journal of Adolescent Health, 70*(2), 228-233. doi: 10.1016/j.jadohealth.2021.10.010. PMCID: PMC8741285

160. *Hochgraf, A. K., Fosco, G. M., & **Lanza**, S. T. (2022). Age-varying associations between attempts to lose weight and nicotine vaping across adolescence: Results from a nationally representative sample. *Journal of Adolescent Health, 72*(3), 352-358. doi: 10.1016/j.jadohealth.2022.10.009 PMCID: PMC10062420

159. *Kunchay, S., Linden-Carmichael, A. N., **Lanza**, S., & Abdullah, S. (2022). Understanding design approaches and evaluation methods in mHealth applications targeting substance use: Protocol for a systematic review. *Journal of Medical Internet Research Protocols, 11*(7), e35749. doi: 10.2196/35749 PMCID: PMC9377467

158. **Lanza**, S. T., Sokolovsky, A. W., Linden-Carmichael, A. N., White, H. R., & Jackson, K. M. (2022). Understanding heterogeneity among simultaneous alcohol and marijuana users: Latent classes derived from daily diary data. *Journal of Studies on Alcohol and Drugs*, *83*, 358-363. PMCID: PMC9134998

157. **Lanza**, S. T., Whetzel, C. A., Linden-Carmichael, A. N., & Newschaffer, C. J. (2022). Change in college student health and well-being profiles as a function of the COVID-19 pandemic. *PLOS One, 17*(5), e0267724. doi: 10.1371/journal.pone.0267724 PMCID: PMC9060353

156. Linden-Carmichael, A. N., *Van Doren, N., Bray, B. C., Jackson, K., & **Lanza**, S. T. (2022). Stress and affect as daily risk factors for substance use patterns: An application of latent class analysis for daily diary data. *Prevention Science, 23*(4), 598-607. doi: 10.1007/s11121-021-01305-9. PMCID: PMC9054936

155. *Qian, T., Walton, A. E., Collins, L. M., Klasnja, P., **Lanza**, S. T., Nahum-Shani, I., Rabbi, M., Russell, M. A., Walton, M. A., Yoo, H., & Murphy, S. A. (2022). The micro-randomized trial for developing digital interventions: Experimental design and data analysis considerations. *Psychological Methods, 27*(5), 874-894. doi: 10.1037/met0000283. PMCID: PMC9276848

154. *Stull, S. W., Linden-Carmichael, A. N., Cloutier, R. M., Bonnie, A. E., & **Lanza**, S. T., (2022). Flexibly modeling age trends in the prevalence of co-occurring patterns of substance use and mental health disorders using time-varying effects and latent class analysis. *The American Journal of Drug and Alcohol Abuse, 48,* 293-301. doi: 10.1080/00952990.2021.2016786. PMCID: PMC35100070

153. *Stull, S. W., Mogle, J., Bertz, J. W., Burgess-Hull, A. J., Panlilio, L. V., **Lanza**, S. T., Preston, K. L., & Epstein, D. H. (2022). Variability in intensively assessed mood: Systematic sources and factor structure in outpatients with opioid use disorder. *Psychological Assessment, 34*(10), 966-977. doi: 10.1037/pas0001160. PMCID: PMC10066936

152. Bekiroglu, K., Russell, M. A., Lagoa, C., Su, R., Sznaier, M., **Lanza**, S. T., & Odgers, C. L. (2021). Continuous-time model identification: Application on a behavioural (miLife) study. *International Journal of Control, 94*(9), 2318-2329. doi: 10.1080/00207179.2019.1706101.

151. *Hochgraf, A. K., Fosco, G. M., **Lanza**, S. T., & McHale, S. M. (2021). Developmental timing of parent-youth intimacy as a protective factor for adolescent adjustment problems. *Journal of Family Psychology, 35*(7), 916-926. doi: 10.1037/fam0000864. PMCID: PMC8478700

150. *Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2021). The developmental course of the link between weight concerns and cigarette use across adolescence: differences by gender. *International Journal of Eating Disorders, 54*(10), 1793-1799. doi: 10.1002/eat.23586. PMCID: PMC8492492

149. *Jones, D., **Allen, H., **Lanza**, S. T., & Graham-Engeland, J. (2021). Daily associations between affect and alcohol use among adults: The importance of affective arousal. *Addictive Behaviors, 112,* 106623. doi: 10.1016/j.addbeh.2020.106623. PMCID: PMC7572769

148. Linden-Carmichael, A. N., **Allen, H., & **Lanza**, S. T. (2021). The socio-environmental context of simultaneous alcohol and marijuana use among young adults: Examining day-level associations. *Drug and Alcohol Review*, *40*(4), 647-657. doi: 10.1111/dar.13213. PMCID: PMC8543342

147. Linden-Carmichael, A. N., *Hochgraf, A. K., **Cloutier, R. M., *Stull, S. W., & **Lanza**, S. T. (2021). Associations between simultaneous alcohol and cannabis use and next-day negative affect among young adults: The role of sex and trait anxiety. *Addictive Behaviors*, *123*, 107082. doi: 10.1016/j.addbeh.2021.107082. PMCID: PMC8419092

146. *Mak, H. W., Fosco, G. M., & **Lanza**, S. T. (2021). Dynamic associations of parent-adolescent closeness and friend support with adolescent depressive symptoms across ages 12-19. *Journal of Research on Adolescence, 31*(2), 299-316. doi: 10.1111/jora.12597. PMCID: PMC8127347

145. Panlilio, L. V., *Stull, S. W., Bertz, J. W., Burgess-Hull, A. J., **Lanza**, S. T., Curtis, B. L., Phillips, K. A., Epstein, D. H., Preston, K. L. (2021). Beyond abstinence and relapse II: Momentary relationships between stress, craving, and lapse within clusters of patients with similar patterns of drug use. *Psychopharmacology, 238*(6), 1513-1529. doi: 10.1007/s00213-021-05782-2. PMCID: PMC8141007

144. Rice, C. E., Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2021). Sexual minority-related discrimination across the life course: Findings from a national sample of adults in the United States. *Journal of Homosexuality, 68,* 252-268. doi: 10.1080/00918369.2019.1648083. PMCID: PMC7073284

143. *Stull, S., Bertz, J. W., Epstein, D. H., Bray, B. C., & **Lanza**, S. T. (2021). Anhedonia and substance use disorders by type, severity, and with mental health disorders. *Journal of Addiction Medicine, 16*(3), e150-156. doi: 10.1097/ADM.0000000000000891. PMCID: PMC8761228

142. *Bhuiyan, N., Linden-Carmichael, A. N., **Lanza**, S. T., Schmitz, K. H., & Mama, S. K. (2020). Age-varying associations between physical activity and psychological outcomes among rural cancer survivors. *Journal of Behavioral Medicine, 44*(4), 484-491. doi: 10.1007/s10865-020-00187-6. PMCID: PMC8039059

141. *Mak, H. W., Russell, M. A., **Lanza**, S. T., Feinberg, M. E., & Fosco, G. M. (2020). Age-varying associations of parental knowledge and antisocial peer behavior with adolescent substance use. *Developmental Psychology, 56*(2), 298-311. doi:10.1037/dev0000866 PMCID: PMC7195894

140. Conroy, D. E., Yang, C.-H., **Lanza**, S. T., Smyth, J. M., & Lagoa, C. M. (2020). Temporal dynamics of treatment receipt in a text message intervention for physical activity: Single-group, within-person trial. *JMIR mHealth and uHealth, 22,* 8(4), e14270. PMCID: PMC7203619

139. Dziak, J. J., Coffman, D. L., **Lanza**, S. T., Li, R., & Jermiin, L. S. (2020). Sensitivity and specificity of information criteria. *Briefings in Bioinformatics*, *21*, 553-565. doi: /10.1101/449751 PMCID: PMC7299313

138. Linden-Carmichael, A. N., **Allen, H. K., Masters, L. D., Ansell, E. B., **Lanza**, S. T. (2020). Age-varying trends in alcohol and cannabis co-occurring use: Implications for prescription drug misuse. *American Journal of Drug and Alcohol Abuse, 47*(2), 209-219. *doi*: 10.1080/00952990.2020.1831003. PMCID: PMC8543337

137. Linden-Carmichael, A. N., **Allen, H., & **Lanza**, S. T. (2020). The language of subjective alcohol effects: Do young adults vary in their feelings of intoxication? *Experimental and Clinical Psychopharmacology*, *29*(6), 670-678. doi: 10.1037/pha0000416. PMCID: PMC8073287

136. Linden-Carmichael, A. N., *Van Doren, N., Masters, L. D., & **Lanza**, S. T. (2020). Simultaneous alcohol and marijuana use in daily life: Implications for level of use, subjective intoxication, and positive and negative consequences. *Psychology of Addictive Behaviors*, 34, 447-453. doi: 10.1037/adb0000556. PMCID: PMC7148190
**Featured in June 22, 2021 NIDA Notes.*

135. Linden-Carmichael, A. N., Masters, L. D., & **Lanza**, S. T. (2020). "Buzzwords": Crowd-sourcing and quantifying U.S. young adult terminology for subjective effects of alcohol and marijuana use. *Experimental and Clinical Psychopharmacology, 28*, 632-637. doi: 10.1037/pha0000344. PMCID: PMC7375944

134. Russell, M. A., Linden-Carmichael, A. N., **Lanza**, S. T., *Fair, E. V., Sher, K. J., & Piasecki, T. M. (2020). Affect relative to day-level drinking initiation: analyzing ecological momentary assessment data with multilevel spline modeling. *Psychology of Addictive Behaviors, 20,* 753-764. doi: 10.1037/adb0000550. PMCID: PMC7148183

133. **Fish, J. N., Rice, C. E., **Lanza**, S. T., & Russell, S. T. (2019). Is young adulthood a critical period for suicidal behavior among sexual minorities? Results from a US national sample. *Prevention Science*, *20*, 353-365. doi: 10.1007/s11121-018-0878-5 PMCID: PMC6163093

132. Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2019). Age trends in alcohol use behavior patterns among U.S. adults ages 18-65. *Drug and Alcohol Dependence, 205,* 107689. doi: 10.1016/j.drugalcdep.2019.107689 PMCID: PMC6957076

131. Bray, B. C., Dziak, J. J., Patrick, M. E., & **Lanza**, S. T. (2019). Inverse propensity score weighting with a latent class exposure: estimating the causal effect of reported reasons for alcohol use on adulthood problem alcohol use 16 years later. *Prevention Science, 20, 394-406*. doi: 10.1007/s11121-018-0883-8 PMCID: PMC6139077

130. Linden-Carmichael, A. N., Russell, M. A., & **Lanza**, S. T. (2019). Flexibly modeling alcohol use disorder risk: How many drinks should we count? *Psychology of Addictive Behaviors*, *33*, 50-57. doi:10.1037/adb0000431. PMCID: PMC6521945

129. Newman, M. G., *Shin, K. E., & **Lanza**, S. T. (2019). Time-varying moderation of treatment outcomes by illness duration and comorbid depression in generalized anxiety disorder. *Journal of Consulting and Clinical Psychology, 87*, 282-293. PMCID: PMC6632089

128. Patrick, M. E., Terry-McElrath, Y. M., **Lanza**, S. T., Jager, J., Schulenberg, J. E., & O'Malley, P. M. (2019). Shifting age of peak binge drinking prevalence: historical changes in normative trajectories among young adults aged 18 to 30. *Alcoholism: Clinical and Experimental Research, 43,* 287-298. doi: 10.1111/acer.13933 PMCID: PMC6432634

127. Rice, C., Vasilenko, S. A., Fish, J. N., & **Lanza**, S. T. (2019). Sexual minority health disparities: an examination of age-related trends across adulthood in a national cross-sectional sample. *Annals of Epidemiology, 31, 20-25*. PMCID: PMC6606453

126. Zawadski, M. J., Scott, S. B., Almeida, D. M., **Lanza**, S. T., Conroy, D. E. Sliwinski, M. J., **Kim, J., **Marcusson-Clavertz, D., Stawski, R. S., Green, P. M., Sciamanna, C. N., & Smyth, J. M. (2019). Understanding stress reports in daily life: A coordinated analysis of factors associated with the frequency of reporting stress. *Journal of Behavioral Medicine, 42, 545-560*. PMCID: PMC6526071

125. *Braymiller, J. L., Masters, L. D., Linden-Carmichael, A. N., & **Lanza**, S. T. (2018). Contemporary patterns of marijuana use and attitudes among high school seniors: 2010–2016. *Journal of Adolescent Health, 63,* 394-400. PMCID: PMC6510238

124. Conroy, D. E., Hojjatinia, S., Lagoa, C. M., Yang, C.-H., **Lanza**, S. T., & Smyth, J. M. (2018). Personalized models of physical activity responses to text message micro-interventions: a proof-of-concept application of control systems engineering methods. *Psychology of Sports & Exercise, 41,* 172-180. doi: 10.1016/j.psychsport.2018.06.011 PMCID: PMC6404972

123. Dierker, L., Selya, A., **Lanza**, S., Li, R., & Rose, J. (2018). Depression and marijuana use disorder symptoms among current marijuana users. *Addictive Behaviors, 76,* 161-168. doi: 10.1016/j.addbeh.2017.08.013 PMCID: PMC5614863

122. Evans-Polce, R. J., Patrick, M. E., **Lanza**, S. T., Miech, R. M., O'Malley, P. M., & Johnston, L. (2018). Reasons for vaping among US 12th graders. *Journal of Adolescent Health, 62*, 457-462. PMCID: PMC5866738

    Note: highlighted in the Journal of Adolescent Health's *Year in Review as one of "the most important topics in adolescent and young adult health and medicine of 2018."*

121. Linden-Carmichael, A. N., Dziak, J. J., & **Lanza**, S. T. (2018). Dynamic features of problematic drinking: Alcohol use disorder latent classes across ages 18-64. *Alcohol and Alcoholism, 54*, 97-103. doi: 10.1093/alcalc/agy074. PMCID: PMC6324653

120. Linden-Carmichael, A. N., Kloska, D. D., Evans-Polce, R., **Lanza**, S. T., & Patrick, M. E. (2018). College degree attainment by age of first marijuana use and parental education. *Substance Abuse, 40, 66-70*. doi:10.1080/08897077.2018.1521354. PMCID: PMC6535370

119. Linden-Carmichael, A. N., & **Lanza**, S. T. (2018). Drinking patterns of college- and non-college-attending young adults: Is high-intensity drinking only a college phenomenon? *Substance Use and Misuse*. doi: 10.1080/10826084.2018.1461224. PMCID: PMC6105386

118. **Rice, C. A., Vasilenko, S. A., **Lanza**, S. T., Davis, J. A., Fields, K. S., Ervin, M., & Turner, A. N. (2018). Time since first acting on same-sex attraction and recreational drug use among men who have sex with men (MSM): Is there an effect of "gay age"? *Substance Use and Misuse, 53, 852-858*. doi: 10.1080/10826084.2017.1388407 PMCID: PMC6124658

117. Scott, S. B., Sliwinski, M. J., Zawadzki, M., Stawski, R., **Kim, J., **Marcussen-Clavertz, D., **Lanza**, S. T., Conroy, D., Buxton, O., Almeida, D. M., & Smyth, J. M. (2018). A coordinated analysis of variance in affect in daily Life. *Assessment*. doi:10.1177/1073191118799460. PMCID: PMC6408986

116. Smyth, J. M., Sliwinski, M. J., Zawadzki, M. J., Scott, S. B., Conroy, D. C., **Lanza**, S. T., **Marcusson-Clavertz, D., **Kim, J., Stawski, R. S., Stoney, C. M., Buxton, O. M., Sciamanna, C. N., Green, P. M., & Almeida, D. M. (2018). Everyday stress response targets in the science of behavior change. *Behavior Research and Therapy, 101*, 20-29. doi: 10.1016/j.brat.2017.09.009 PMCID: PMC5801200

115. Stawski, R. S., Scott, S. B., Zawadski, M. J., Sliwinski, M. J., **Marcusson-Clavertz, D., **Kim, J., **Lanza**, S. T., Green, P. A., Almeida, D. M., & Smyth, J. M. (2018). Age differences in everyday stressor-related negative affect: A coordinated analysis. *Psychology and Aging*. https://doi.org/10.1037/pag0000309 PMCID: PMC6367015

114. Vasilenko, S. A., Linden-Carmichael, A., **Lanza**, S. T. & Patrick. M. E. (2018). Sexual behavior and heavy episodic drinking across the transition to adulthood: Differences by college attendance. *Journal of Research on Adolescence*, *28*, 473-487. doi: 10.1111/jora.12348. PMCID: PMC5899061

113. **Bekiroglu, K., Russell, M. A., Lagoa, C. M., **Lanza**, S. T., & Piper, M. E. (2017). Evaluating the effect of smoking cessation treatment on a complex dynamical system. *Drug and Alcohol Dependence, 180,* 215-222. doi: 10.1016/j.drugalcdep.2017.07.037 PMCID: PMC5901658

112. **Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2017). Control engineering methods for the design of robust behavioral treatments. *IEEE Transactions on Control Systems Technology*, 25, 979-990. doi: 10.1109/TCST.2016.2580661. PMCID: PMC5362168

111. Cleland, C., **Lanza**, S. T., Vasilenko, S. A., & Gwadz, M. (2017). Syndemic risk classes and substance use problems among adults in high-risk urban areas: A latent class analysis. *Frontiers in Public Health: Public Mental Health*, *5,* 237. PMCID: PMC5594078

110. Cook, J. W., **Lanza**, S. T., *Chu, W., Baker, T. B., & Piper, M. E. (2017). Anhedonia: Its dynamic relations with craving, negative affect, and treatment during a quit smoking attempt. *Nicotine and Tobacco Research, 19,* 703-709. PMCID: PMC5423098

109. **Evans-Polce, R., Maggs, J. L., Staff, J., & **Lanza**, S. T. (2017). The age-varying association of student status with excessive alcohol use: Ages 18 to 30 years. *Alcoholism: Clinical and Experimental Research, 41,* 407-413. PMCID: PMC5272785

108. **Lanza**, S. T., Russell, M. A., & *Braymiller, J. (2017). Emergence of electronic cigarette use in US adolescents and the link to traditional cigarette use. *Addictive Behaviors, 67,* 38-43. PMCID: PMC5250583

107. Linden-Carmichael, A. N., **Lanza**, S. T., Dziak, J. J., & Bray, B. C. (2017). Contemporary alcohol use patterns among a national sample of U.S. adult drinkers. *Journal of Addictive Diseases, 36,* 222-226. doi: 10.1080/10550887.2017.1338816. PMCID: PMC5656524

106. Linden-Carmichael, A., Vasilenko, S., **Lanza**, S. T., & Maggs, J. (2017). High-intensity drinking versus heavy episodic drinking: Prevalence rates and relative odds of alcohol use disorder across adulthood. *Alcoholism: Clinical and Experimental Research, 41,* 1754-1759. doi: 10.1111/acer.13475. PMCID: PMC28800154

105. Patrick, M. E., Evans-Polce, R., Kloska, D. D., Maggs, J. L., & **Lanza**, S. T. (2017). Age-related changes in associations between reasons for alcohol use and high-intensity drinking across young adulthood. *Journal of Studies on Alcohol and Drugs, 78,* 558-570. PMCID: PMC5551660

104. Piper, M. E., Vasilenko, S. A., Cook, J. W., & **Lanza**, S. T. (2017). What a difference a day makes: differences in initial abstinence response during a smoking cessation attempt. *Addiction, 112,* 330-339. PMCID: PMC5233552

103. **Rice, C. E., Turner, A. N., & **Lanza**, S. T. (2017). Sexual behavior latent classes among men who have sex with men: Associations with sexually transmitted infections. *The Journal of Sex Research, 54,* 776-783. PMCID: PMC5479140

102. Snippe, E., Dziak, J. J., **Lanza**, S. T., Nyklíček, I., Wichers, M. (2017). The shape of change in perceived stress, negative affect, and stress-sensitivity during mindfulness-based stress reduction. *Mindfulness, 8,* 728-736. PMCID: PMC5648363

101. Vasilenko, S. A., Evans-Polce, R., & **Lanza**, S. T. (2017). Age trends in rates of substance use disorders across ages 18-90: Differences by gender and race/ethnicity. *Drug and Alcohol Dependence, 180,* 260-264. PMCID: PMC5757874

100. *Ashour, M., **Bekiroglu, K., Yang, C.-H., Lagoa, C., Conroy, D., Smyth, J., & **Lanza**, S. T. (2016). On the mathematical modeling of the effect of treatment on human physical activity. In *Proceedings of the 2016 IEEE Conference on Control Applications (CCA)* (pp. 1084-1091). Buenos Aires, Argentina: IEEE. PMCID: Exempt (non-periodical)

99. Dziak, J. J., Bray, B. C., *Zhang, J., Zhang, M., & **Lanza**, S. T. (2016). Comparing the performance of improved classify-analyze approaches in latent profile analysis. *Methodology, 12,* 107-116. PMCID: PMC5473653

98. **Evans-Polce, R. E., **Lanza**, S. T., & Maggs, J. L. (2016). Heterogeneity of alcohol, tobacco, and other substance use behaviors in US college students: A latent class analysis. *Addictive Behaviors*, *53*, 80-85. doi: 10.1016/j.addbeh.2015.10.010 PMCID: PMC4712642

97. **Fairlie, A. M., Maggs, J. L., & **Lanza**, S. T. (2016). Profiles of college drinkers defined by alcohol behaviors at the week level: Replication across semesters and prospective associations with hazardous drinking and dependence-related symptoms. *Journal of Studies on Alcohol and Drugs*. *77*, 38-50, doi: 10.15288/jsad.2016.77.38 PMCID: PMC4711318

96. **Lanza**, S. T., & Cooper, B. R. (2016). Latent class analysis for developmental research. *Child Development Perspectives, 10,* 59-64. PMCID: PMC6914261

95. **Lanza**, S. T., Vasilenko, S. A., & Russell, M. A. (2016). Time-varying effect modeling to address new questions in behavioral research: Examples in marijuana use. *Psychology of Addictive Behaviors*. *30*(8), 939-954. doi: 10.1037/adb0000208. PMCID: PMC5222706

94. *Parr, A., **Lanza**, S. T., & Bernthal, P. (2016). Personality profiles of effective leadership performance in assessment centers. *Human Performance*. *29:2*, 143-157. doi: 10.1080/08959285.2016.1157596 PMCID: PMC5058439

93. Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza**, S. T. (2016). Perceived friends' use as a risk factor for marijuana use across young adulthood. *Psychology of Addictive Behaviors, 30,* 904-914. doi: 10.1037/adb0000215 PMCID: PMC5222776

92. **Rice, C., Maierhofer, C., **Lanza**, S. T., & Turner, A. N. (2016). Beyond anal sex: Sexual practices among men who have sex with men and associations with HIV and other sexually transmitted infections. *Journal of Sexual Medicine, 13*, 374-382. PMCID: PMC4779701

91. Russell, M. A., Vasilenko, S. A., & **Lanza**, S. T. (2016). Age-varying links between violence exposure and behavioral, mental, and physical health. *Journal of Adolescent Health, 59,* 189-196. doi: 10.1016/j.jadohealth.2016.03.038 PMCID: PMC4958611

90. Vasilenko, S. A., Kugler, K. C., & **Lanza**, S. T. (2016). Latent classes of adolescent sexual and romantic relationship experiences: Implications for adult sexual health and relationship outcomes. *The Journal of Sex Research, 53,* 742-753. doi: 10.1080/00224499.2015.1065952 PMCID: PMC4824667

89. Bray, B. C., **Lanza,** S. T., & Tan, X. (2015). Eliminating bias in classify-analyze approaches for latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal, 22*, 1-11. doi: 10.1080/10705511.2014.935265 PMCID: PMC4299667

88. **Evans-Polce, R. E., Vasilenko, S. A., & **Lanza**, S. T. (2015). Changes in gender and racial/ethnic disparities in rates of cigarette use, regular heavy episodic drinking, and marijuana use: ages 14 to 32. *Addictive Behaviors, 41*, 218-222. PMCID: PMC4314406

87. **Fairlie, A. M., Maggs, J., L., & **Lanza**, S. T. (2015). Prepartying, drinking games, and extreme drinking among college students: A daily-level investigation. *Addictive Behaviors, 42,* 91-95. PMCID:PMC4272894

86. **Lanza**, S. T., & Vasilenko, S. A. (2015). New methods shed light on age of onset as a risk factor for nicotine dependence. *Addictive Behaviors*, *50*, 161-164. doi:10.1016/j.addbeh.2015.06.024. PMCID: PMC4519837

85. **Lanza**, S. T., Vasilenko, S. A., Dziak, J. J., & *Butera, N. M. (2015). Trends among US high school seniors in recent marijuana use and associations with other substances: 1976 to 2013. *Journal of Adolescent Health*, *57*, 198-204. doi:10.1016/j.jadohealth.2015.04.006 PMCID: PMC4519837

84. Mason, M., Mennis, J., Way, T., **Lanza**, S., Russell, M., & Zaharakis, N. (2015). Time-varying effects of a text-based smoking cessation intervention for urban adolescents. *Drug and Alcohol Dependence*, *157*, 99-105. doi: 10.1016/j.drugalcdep.2015.10.016 PMCID: PMC4831210

83. **Schuler, M. S., Vasilenko, S. A., & **Lanza**, S. T. (2015). Age-varying associations between substance use behaviors and depressive symptoms during adolescence and young adulthood. *Drug and Alcohol Dependence*, *157*, 75-82. doi: 10.1016/j.drugalcdep.2015.10.005. PMCID: PMC4663168

82. Vasilenko, S. A., Kugler, K. C., *Butera, N. M. & **Lanza**, S. T. (2015). Patterns of adolescent sexual behavior predicting young adult sexually transmitted infections: A latent class analysis approach. *Archives of Sexual Behavior, 44,* 705-715. doi: 10.1007/s10508-014-0258-6. PMCID: PMC4107199

80. *Zhang, J., Bray, B. C., Zhang, M., & **Lanza**, S. T. (2015). Personality profiles and frequent heavy drinking in young adulthood. *Personality and Individual Differences*, *80*, 18-21. doi:10.1016/j.paid.2015.01.054 PMCID: PMC4397499

79. *Zhang, J., **Lanza**, S. T., Zhang, M., & Su, B. (2015). Structure of the University Personality Inventory for Chinese college students. *Psychological Reports: Measures & Statistics, 116*, 821-839. doi: 10.2466/08.02.PR0.116k26w3 PMCID: PMC4852747

78. *Butera, N. M., **Lanza**, S. T., & Coffman, D. L. (2014). A framework for estimating causal effects in latent class analysis: Is there a causal link between early sex and subsequent profiles of Delinquency? *Prevention Science, 15*, 397-407. doi: 10.1007/s11121-013-0417-3. PMCID: PMC3888479

77. Cooper, B. R., & **Lanza**, S. T. (2014). Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects. *Child Development*, *85*, 2317-2338. doi: 10.1111/cdev.12278. PMCID: PMC4236237

76. Dziak, J. J., **Lanza**, S. T., & Tan, X. (2014). Effect size, statistical power, and sample size requirements for the bootstrap likelihood ratio test in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal, 21*, 1-19. doi: 10.1080/10705511.2014.919819. PMCID: PMC4196274

75. Lagoa, C., *Bekiroglu, K., **Lanza**, S. T., & Murphy, S. (2014). Designing adaptive intensive interventions using methods from engineering. *Journal of Consulting and Clinical Psychology, 82,* 868-78. PMCID: PMC4176810

74. **Lanza**, S. T., Cooper, B. R., & Bray, B. C. (2014). Population heterogeneity in the salience of multiple risk factors for adolescent delinquency. *Journal of Adolescent Health, 54,* 319-325. PMCID: PMC3943167

73. **Lanza**, S. T., Piper, M. E., & Shiffman, S. (2014). New methods for advancing research on tobacco dependence using ecological momentary assessments. *Nicotine and Tobacco Research, 16 Suppl 2*, S71-S72. PMCID: PMC4085886

72. **Lanza**, S. T., Vasilenko, S., *Liu, X., Li, R., & Piper, M. (2014). Advancing the understanding of craving during smoking cessation attempts: A demonstration of the time-varying effect model. *Nicotine and Tobacco Research, 16* Suppl 2, S127-S134. doi: 10.1093/ntr/ntt128 PMCID: PMC3977629

71. Vasilenko, S. A., & **Lanza**, S. T. (2014). Predictors of multiple sexual partners from adolescence through young adulthood. *Journal of Adolescent Health*, *56,* 491-497. doi: 10.1016/j.jadohealth.2013.12.025. PMCID: PMC4139487

70. Vasilenko, S. A., Piper, M. E., **Lanza**, S. T. *Liu, X., **Yang, J. & Li, R. (2014). Time-varying processes involved in smoking lapse in a randomized trial of smoking cessation therapies. *Nicotine and Tobacco Research*, *16*, S135-S143. doi: 10.1093/ntr/ntt18. PMCID: PMC3977637

69. Abraham, L. M., Crais, E., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2013). Early maternal language use during book sharing in families from low income environments. *American Journal of Speech Language Pathology, 22,* 71-83. doi: 10.1044/1058-0360(2012/11-0153).

68. *Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2013). A robust MPC approach to the design of behavioral treatments. *Proceedings of the 52nd IEEE Conference on Decision and Control*, 3505-3510. PMC Exempt

67. *Deiches, J., Baker, T., **Lanza**, S. T., & Piper, M. (2013). Early lapses in a cessation attempt: Lapse contexts, cessation success and predictors of early lapse. *Nicotine and Tobacco Research, 15,* 1883-91. PMCID: PMC3790630

66. Hillemeier, M. M., **Lanza, S. T.**, Landale, N. S., & Oropesa, R. S. (2013). Measuring early childhood health and health disparities: A new approach. *Maternal and Child Health Journal*, *17*, 1852-1861. PMCID: PMC3615056 doi: 10.1007/s10995-012-1205-6

65. **Hopfer, S., Hecht, M. L., **Lanza**, S. T., Tan, X., & **Xu, S. (2013). Preadolescent drug use resistance skill profiles, substance use, and substance use prevention. *The Journal of Primary Prevention, 34,* 395-404. PMCID: PMC4089389

64. Landale, N. S., **Lanza**, S. T., Hillemeier, M. M., & Oropesa, R. S. (2013). Health and development among Mexican, Black, and white preschool children: An integrative approach using latent class analysis. *Demographic Research, 28*, 1302-1338, PMCID: PMC4105264

63. **Lanza**, S. T., Coffman, D. L., & **Xu, S. (2013). Causal inference in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal, 20,* 361-383. PMCID: PMC4240500

62. **Lanza**, S. T., *Moore, J. E., & *Butera, N. M. (2013). Drawing causal inference using propensity scores: A practical guide for community psychologists. *American Journal of Community Psychology*, *52*, 380-392. doi: 10.1007/s10464-013-9604-4. PMCID: PMC4098642

61. **Lanza,** S. T. & *Rhoades, B. L. (2013). Latent class analysis: An alternative perspective on subgroup analysis in prevention and treatment. *Prevention Science, 14,* 157-168. PMCID: PMC3173585. DOI: doi: 10.1017/S0954579410000088

60. **Lanza**, S. T., Tan, X., & Bray, B. C. (2013). Latent class analysis with distal outcomes: A flexible model-based approach. *Structural Equation Modeling*, 20, 1-20. PMCID: PMC4240499

59. *Liu, X., Li, R., **Lanza**, S. T., **Vasilenko, S., & Piper, M. (2013). Understanding the role of cessation fatigue in the smoking cessation process. *Drug and Alcohol Dependence*, *133*, 548-555. doi: 10.1016/j.drugalcdep.2013.07.025 PMCID: PMC4057045

58. Pancsofar, N., Vernon-Feagans, L., Odom, E., & **The Family Life Project Investigators.** (2013). Work characteristics and fathers' vocabulary to infants in African American families. *Journal of Applied Developmental Psychology, 34,* 73-81. DOI: 10.1016/j.appdev.2012.11.005 PMCID: PMC3587678

57. Barnett, M. A., Mills-Koonce, W. R., Gustafsson, H. C., Cox, M. & **Family Life Project Key Investigators** (2012). Mother-grandmother conflict, negative parenting, and young children's social development in multigenerational families. *Family Relations, 61,* 864-877. DOI: 10.1111/j.1741-3729.2012.00731.x

56. Cleveland, M. J., **Lanza**, S. T., Ray, A. E., Turrisi, R., & Mallett, K. M. (2012). Transitions in first-year college student drinking behaviors: Does drinking latent class membership moderate the effects of parent- and peer-based intervention components? *Psychology of Addictive Behaviors, 26,* 440-450. PMCID: PMC3413757.

55. Gustafsson, H. C., Cox, M. J., Blair, C., & **the Family Life Project Key Investigators.** (2012). Maternal parenting as a mediator of the relationship between intimate partner violence and effortful control. *Journal Of Family Psychology, 26*(1), 115-123. doi:10.1037/a0026283 PMCID: PMC3327444

54. **Shiyko, M. P., **Lanza**, S. T., Tan, X., Li, R., & Shiffman, S. (2012). Using the time-varying effect model (TVEM) to examine dynamic associations between negative affect and self-confidence on smoking urges: Differences between successful quitters and relapsers. *Prevention Science, 13*, 288-299. doi: 10.1007/s11121-011-0264-z PMCID: PMC3171604

53. Vernon-Feagans, L., Garrett-Peters, P., Willoughby, M., Mills-Koonce, R., Cox, M., Blair, C., Burchinal, P., Burton, L., Crnic, K., Crouter, N., Garrett-Peters, P., Granger, D., Greenberg, M., **Lanza, S.**, Miccio, A., Mills-Koonce, R., Skinner, D.,

Stifter, C., Werner, E., & Willoughby, M. (2012). Chaos, poverty, and parenting: Predictors of early language development. *Early Childhood Research Quarterly, 27*, 339 – 351.

52. Blair, C., Granger, D., Willoughby, M., Mills-Koonce, W.R., Cox, M., Greenberg, M.T., Kivlighan, K., Fortunato, C., & **The Family Life Project Key Investigators.** (2011). Salivary cortisol mediates effects of poverty and parenting on executive functions in early childhood. *Child Development, 82*(6), 1970-1984. DOI: 10.1111/j.1467-8624.2011.01643.x PMCID: PMC3218241

51. Garrett-Peters, P.T., Mills-Koonce, W. R., Zerwas, S., Cox, M. J., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2011). Fathers' early emotion talk: Associations with income, ethnicity, and family practice. *Journal of Marriage and Family, 73*(2), 335-353. doi: 10.1111/j.1741-3737.2010.00810.x

50. Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2011). Paternal work stress and latent profiles of father-infant parenting quality. *Journal of Marriage and Family, 73*(3), 588-604. PMCID: PMC3495607

49. Hibel, L.C., Granger, D.A., Blair, C., Cox, M.J., & **The Key Family Life Project Investigators.** (2011). Maternal sensitivity buffers the adrenocortical implications of intimate partner violence exposure during early childhood. *Development and Psychopathology, 23,* 689-701. doi:10.1017/S0954579411000010

48. **Lanza**, S. T, Kugler, K. C., & **Mathur, C. (2011). Differential effects for sexual risk behavior: An application of finite mixture regression. *The Open Family Studies Journal, 4*(Suppl. 1-M9), 81-88. PMCID: PMC3487167

47. **Lanza**, S. T., *Rhoades, B. L., Greenberg, M. T., Cox, M. J., & The Family Life Project Key Investigators (2011). Modeling multiple risks during infancy: Contributions of a person-centered approach. *Infant Behavior and Development, 34*(3), 390-406. PMCID: PMC3134117

46. Mills-Koonce, W. R., Garrett-Peters, P., Barnett, M., Granger, D., Blair, B, Cox, M. J., & **The Family Life Project Key Investigators.** (2011). Father contributions to cortisol responses in infancy and toddlerhood. *Developmental Psychology, 47*(2), 288-395. doi: 10.1037/a0021066

45. *Rhoades, B. L., Greenberg, M. T., **Lanza**, S. T., & Blair, C. (2011). Demographic and familial predictors of early executive function development: Contribution of a person-centered perspective. *Journal of Experimental Child Psychology, 108*(3), 638-662. PMCID: PMC3016464

44. Smith, R. A., & **Lanza**, S. T. (2011). Testing theoretical network classes and HIV-related correlates with latent class analysis. *AIDS Care, 23,* 1274-1281. doi: 10.1080/09540121.2011.555747. PMCID: PMC3181093

43. Towe-Goodman, N., Stifter, C., Coccia, M., Cox, M., & **The Family Life Project Key Investigators.** (2011). Interparental aggression, attention skills, and early childhood behavior problems. *Development and Psychopathology, 23,* 563-576. doi: 10.1017/S0954579411000216

42. *Bray, B. C., **Lanza**, S. T., & Collins, L. M. (2010). Modeling relations among discrete developmental processes: A general approach to associative latent transition analysis. *Structural Equation Modeling, 17*, 541-569. PMCID: PMC3094019

41. Cleveland, M. J., Collins, L. M., **Lanza**, S. T., Greenberg, M. T., & Feinberg, M. E. (2010). Does individual risk moderate the effect of contextual-level protective factors? A latent class analysis of substance use. *Journal of Prevention and Intervention in the Community, 38*(3), 213-228. PMCID: PMC2898733

40. **Lanza**, S. T., & *Bray, B. C. (2010). Transitions in drug use among high-risk women: An application of latent class and latent transition analysis. *Advances and Applications in Statistical Sciences, 3*, 203-235. PMCID: PMC3171700

39. **Lanza**, S. T., Patrick, M. E., & Maggs, J. L. (2010). Latent transition analysis: Benefits of a latent variable approach to modeling transitions in substance use. *Journal of Drug Issues*, *40*(1), 93-120. PMCID: PMC2909684

38. **Lanza**, S. T., *Rhoades, B. L., Nix, R. L., Greenberg, M. T., & the Conduct Problems Prevention Research Group (2010). Modeling the Interplay of multilevel risk factors for future academic and behavior problems: a person-centered approach. *Development and Psychopathology, 22*, 313-335. PMCID: PMC3005302

37. **Lanza**, S. T., *Savage, J., & Birch, L. (2010). Identification and prediction of latent classes of weight loss strategies among women. *Obesity, 18*(4), 833-840. PMCID: PMC2847025

36. Maldonado, M. M., & **Lanza**, S. T. (2010). A framework to examine gateway relations in drug use: An application of latent transition analysis. *Journal of Drug Issues, 40*(4), 901-924. PMCID: PMC3400537

35. Odom E. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators.** (2010). Buffers of racial discrimination: Links with depression among rural African American mothers. *Journal of Marriage and Family, 72*, 346-359. PMCID : PMC2909597

34. Pancsofar, N., Vernon-Feagans, L., & **The Family Life Project Investigators.** (2010). Fathers' early contributions to children's language development in families from low-income rural communities. *Early Childhood Research Quarterly, 25*(4), 450-463. Doi:10.1016/j.ecresq.2010.02.001 PMCID: PMC2967789

33. Willoughby, M. T., Blair, C. B., Wirth, R. J., Greenberg, M., & **The Family Life Investigative Group.** (2010). The measurement of executive function at age 3 years: Psychometric properties and criterion validity of a new battery of tasks. *Psychological Assessment, 22*(2) 306-317. Doi: 10.1037/a0018708

32. BeLue, R., **Lanza**, S. T., & Figaro, M. K. (2009). Lifestyle therapy changes and hypercholesterolemia: Identifying risk groups in a community sample of blacks and whites. *Ethnicity and Disease*, *19*(2), 142-147. PMCID: PMC2786171

31. De Marco, A., Crouter, A. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators.** (2009). The relationship of maternal work characteristics to childcare type and quality in rural communities. *Community, Work, & Family, 12*(4), 369-387. PMCID: PMC2909618

30. *Goodman, W. B., Crouter, A. C., & **The Family Life Project Key Investigators** (2009). Longitudinal associations between maternal work stress, negative work-family spillover, and depressive symptoms. *Family Relations, 58,* 245-258. PMCID: PMC2744315

29. *Hibel, L. C., Granger, D. A., Blair, C. Cox, M. J., & **The Family Life Project Key Investigators.** (2009). Intimate partner violence moderates the association between mother-infant adrenocortical activity across an emotional challenge. *The Journal of Family Psychology, 23*(5), 615-625.

28. Willoughby, M. T., Kollins, S. H., & McClernon, F. J., & **The Family Life Project Key Investigators.** (2009). Association between smoking and retrospectively reported ADHD symptoms in a large sample of new mothers. *Nicotine and Tobacco Research, 11*(3), 313-322. PMCID: PMC2666380

27. Barnett, M. A. & **The Family Life Project Key Investigators** (2008). Mother and grandmother parenting in low-income three-generation rural households. *Journal of Marriage and Family, 70*(5), 1241-1257. PMCID: PMC2783597

26. Blair, C., Granger, D., Kivlighan, K. T., Mills-Koonce, W. R., Willoughy, M., Greenberg, M. T., Hibel, L. C., Fortunado, C. & **Family Life Project Key Investigators.** (2008). Maternal and child contributions to cortisol response to emotional arousal in young children from low income rural communities. *Developmental Psychology, 44*(4), 1095-1109.

25. Burchinal, M. R., Vernon-Feagans, L., Cox., M., & **The Family Life Project Key Investigators.** (2008). Cumulative social risk, parenting, and infant development in rural low-income communities. *Parenting: Science and Practice, 8,* 41-69. PMCID: PMC2777722

24. **Chung, H., **Lanza**, S. T., & Loken, E. (2008). Latent transition analysis: Inference and estimation. *Statistics in Medicine, 27*, 1834-1854. PMCID: PMC18069720

23. Garrett-Peters, P., Mills-Koonce, W. R., Adkins, D., Vernon-Feagans, L., Cox, M., & **The Family Life Project Key Investigators.** (2008) Early environmental correlates of maternal emotion talk. *Parenting: Science and Practice, 8*, 1-36. PMCID: PMC2783602

22. *Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., & The Family Life Project Key Investigators (2008). Paternal work characteristics and father-infant interaction quality in low-income, rural families. *Journal of Marriage and Family, 70*, 640-653. PMCID: PMC2791409

21. **Lanza**, S. T., & Collins, L. M. (2008). A new SAS procedure for latent transition analysis: Transitions in dating and sexual risk behavior. *Developmental Psychology, 44*(2), 446-456. PMCID: PMC2846549

20. Stifter, C. A., Willoughby, M. T., Towe-Goodman, N. R., & **The Family Life Project Key Investigators.** (2008). Agree or agree to disagree? Assessing the convergence between parents and observers on infant temperament. *Infant and Child Development, 17,* 407-426.

19. Vernon-Feagans, L., Pancsofar, N., Willoughby, M., Odom, E., Quade, A., Cox, M., & **Family Life Project Key Investigators.** (2008). Predictors of maternal language input to infants during a picture book task in the home: Family, SES, child characteristics and the parenting environment. *Journal of Applied Developmental Psychology, 29,* 213-226. PMCID: PMC2448394

18. Zolotor, A., Burchinal, M., Skinner, D., Rosenthal, M. & **The Family Life Project Key Investigators.** (2008). Maternal psychological adjustment and knowledge of infant development as predictors of home safety practices in rural low-income communities. *Pediatrics, 121*(6), 1668 - 1675.

17. Flower, K., Willoughby, M., Cadigan, R.J., Perrin, E.M., Randolph, G., & **The Family Life Project Key Investigators** (2007). Understanding breastfeeding initiation and continuation in rural communities: A combined qualitative/quantitative approach. *Maternal and Child Health Journal, 12*(3), 402-414.

16. Granger, D., Blair, C., Willoughby M., Kivlighan, K.T., Hibel, L.C., Fortunado, C.K., Wiegand, L.E., & **Family Life Project Key Investigators** (2007) Individual differences in salivary cortisol and alpha-amylase in mothers and their infants: Relation to tobacco and smoke exposure. *Developmental Psychobiology, 49*(7), 692-701.

15. **Lanza**, S. T., Collins, L. M., Lemmon, D. R., & Schafer, J. L. (2007). PROC LCA: A SAS procedure for latent class analysis. *Structural Equation Modeling, 14*(4), 671-694. PMCID: PMC2785099

14. *Maldonado-Molina, M. M., Collins, L. M., **Lanza**, S. T., Prado, G., Ramirez, R. R., & Canino, G. (2007). Patterns of substance use onset among Hispanics in Puerto Rico and the United States. *Addictive Behaviors, 32*(10), 2432-2437. PMCID: PMC3001340

13. Blair, C., Granger, D., Willoughby, M., Kivlighan, K., & **Family Life Project Key Investigators.** (2006). Maternal sensitivity is related to hypothalamic-pituitary-adrenal axis stress reactivity and regulation in response to emotion challenge in 6-month-old infants. *Annals of New York Academy of Sciences, 1094,* 263-267.

12. Crouter, A. C., **Lanza**, S. T., Pirretti, A., *Goodman, W. B., Neebe, E., & The Family Life Project Key Investigators (2006). The O*Net jobs classification system: A primer for family researchers. *Family Relations, 55*, 461-472.

11. *Hibel, L. C., Granger, D. A., Kivlighan, K. T., Blair, C. & **The Family Life Project Key Investigators.** (2006). Individual differences in salivary cortisol: Association with common over the counter and prescription medications in infants and their mothers. *Hormones and Behavior, 50*, 293-300.

10. **Lanza**, S. T., & Collins, L. M. (2006). A mixture model of discontinuous development in heavy drinking from ages 18 to 30: The role of college enrollment. *Journal of Studies on Alcohol, 67*, 552-561.

9. Ridenour, T.A., **Lanza**, S.T., Donny, E.C., & Clark, D.B. (2006). Different lengths of times for progressions in adolescent substance involvement. *Addictive Behaviors, 31*, 962-983. PMCID: PMC1531690

8. **Lanza**, S. T., Collins, L. M., Schafer, J. L., & Flaherty, B. P. (2005). Using data augmentation to obtain standard errors and conduct hypothesis tests in latent class and latent transition analysis. *Psychological Methods, 10*, 84-100.

7. *Chung, H., Park, Y., & **Lanza**, S. T. (2005). Latent transition analysis with covariates: Pubertal timing and substance use behaviours in adolescent females. *Statistics in Medicine, 24*, 2895-2910.

6. **NICHD Early Child Care Research Network.** (2005). Predicting individual differences in attention, memory and planning in first graders from experiences at home, child care, and school. *Developmental Psychology, 41*, 99-114.

5. ***Lanza**, S. T., Donny, E., Collins, L. M., & Balster, R. (2004). Analyzing the acquisition of drug self-administration using growth curve models. *Drug and Alcohol Dependence, 75*, 11-21.

4. Donny, E., *Lanza, S. T., Balster, R., Collins, L. M., Caggiula, A., & Rowell, P. P. (2004). Using growth models to relate acquisition of nicotine self-administration to break point and nicotine receptor binding. *Drug and Alcohol Dependence, 75*, 23-35.

3. NICHD Early Child Care Research Network. (2004). Father's and mother's parenting behavior and beliefs as predictors of children's social adjustment in the transition to school. *Journal of Family Psychology, 18*, 628-638.

2. *Lanza, S. T., & Collins, L. M. (2002). Pubertal timing and the onset of substance use in females during early adolescence. *Prevention Science, 3*, 69-82.

1. Jacobs, J. E., *Lanza, S. T., Osgood, D. W., Eccles, J. S., & Wigfield, A. (2002). Changes in children's self-competence and values: Gender and domain differences across grades one through twelve. *Child Development, 73*, 509-527.

Chapters in Edited Volumes

Lanza, S. T., & **Hochgraf, A. K. (2026). Time-varying effect modeling to address novel questions in developmental research. In D. M. Teti, H. H. Cleveland, & K. L. Rulison (Eds.), *Handbook of Research Methods in Developmental Science* (2nd ed.). Hoboken, NJ: Wiley.

Lanza, S. T., **Schuler, M. S., & Bray, B. C. (2016). Latent class analysis with causal inference: The effect of adolescent depression on young adult substance use profile. In W. Wiedermann & A. von Eye (Eds.), *Causality and Statistics* (pp. 385-404). Hoboken, NJ: Wiley.

Lanza, S. T., Bray, B. C., & Collins, L. M. (2013). An introduction to latent class and latent transition analysis. In J. A. Schinka, W. F. Velicer, & I. B. Weiner (Eds.), *Handbook of Psychology* (2nd ed.,Vol. 2, pp. 691-716). Hoboken, NJ: Wiley.

Lanza, S. T., & Collins, L. M. (2010). Modeling multidimensional sexual risk behavior using latent class analysis. In L. Passero & C. Sgariglia (Eds.), *Sexual Risk Behaviors*. Hauppauge, NY: Nova Science Publishers Inc., pp. 119-124.

*Lanza, S. T., *Flaherty, B. P., & Collins, L. M. (2003). Latent class and latent transition analysis. In J. A. Schinka, & W. F. Velicer (Eds.), *Handbook of Psychology: Vol. 2. Research Methods in Psychology*. Hoboken, NJ: Wiley, pp. 663-685.

*Hyatt (Lanza), S. L., & Collins, L. M. (2000). Using latent transition analysis to examine the relationship between parental permissiveness and the onset of substance use. In J. Rose, L. Chassin, C. Presson, & S. J. Sherman (Eds.), *Multivariate Applications in Substance Use Research: New Methods for New Questions*. Hillsdale, NJ: Erlbaum, pp. 259-288.

Collins, L. M., *Hyatt (Lanza), S. L., & Graham, J. W. (2000). LTA as a way of testing models of stage-sequential change in longitudinal data. In T. D. Little, K. U. Schnabel, & J. Baumert (Eds.), *Modeling longitudinal and multiple-group data: Practical issues, applied approaches, and specific examples*. Hillsdale, NJ: Erlbaum, pp. 147-161.

Submitted

Andrushko, Y., Grzymala-Moszczyńska, & Lanza, S. T. (under review). Displaced Ukrainian citizens in the United States: An exploration of lived experiences and psychological states. *Cultural Diversity & Ethnic Minority Psychology*.

Linden-Carmichael, A. N., Lanza, S. T., Sokolovsky, A. W., White, H. R., & Jackson, K. M. (under review). Heterogeneity of within-day simultaneous alcohol and cannabis use behaviors among young adults: A multilevel latent class analysis. *Journal of Studies on Alcohol and Drugs*.

Mama, S. K., Bhatia, M., Shi, J., Schmitz, K. H., Rogers, L. Q., Davis, T., Selman, J., Murley, B., Haas, B., Smyth, J. M., Sciamanna, C. N., Lanza, S. T., & McNeill, L. H. (under review). Integrating and adapting three evidence-based interventions to enhance physical activity and reduce psychosocial distress among rural breast cancer survivors: The Mind Your BEAT (MYB) study. *Translational Behavioral Medicine*.

**Mongilio, J. M., Kcomt, L., Lanza, S. T., Pasman, E., Clift, J., & Evans-Polce, R. J. (under review). Patterns of ENDS-Related Content Exposure on Social Media among U.S. Adolescents and Young Adults. *Nicotine and Tobacco Research*.

*Shakya, E., Whetzel, C. A., Lanza, S. T., Bruening, M., & Na, M. (under revision). Association between food insecurity and depressive symptoms in college students before and during the COVID-19 pandemic. *Journal of American College Health*.

Stull, S. W., Epstein, D. H., Gersz, M., Mondry, L., & **Lanza, S. T. (under review). Daily Motivation for and Perceived Accessibility of Nondrug Reward Among People in Long-term Recovery from Opioid Use Disorder. *Drug and Alcohol Dependence*.

Stull, S. W., Mogle, J., Panlilio, L. V., Wolchok, R., **Lanza, S. T., Bertz, J. W., & Epstein, D. H. (under revision). Between- and within-person predictors of missingness in intensive longitudinal data among people in outpatient treatment for opioid use disorder. *Psychological Assessment*.

Stull, S. W., Wakely, M. E., Saunders, E. C., Jacobson, N. C., Marsch, L. A., **Lanza, S. T. (under review). A qualitative study investigating the role of humor in supporting recovery from addiction. *Journal of Substance Use and Addiction Treatment*.

Reports

Lanza, S. T., & Whetzel, C. (2020). Penn State CORE college relationships and experiences: Penn State descriptive statistics. Edna Bennett Pierce Prevention Research Center, Penn State. https://www.prevention.psu.edu/uploads/files/CORE-Descriptive-Statistics_Overall-4_7_20.pdf

Bray, B. C., **Lanza**, S. T., & Tan, X. (2012). *An introduction to eliminating bias in classify-analyze approaches for latent class analysis* (Technical Report No. 12-118). University Park, PA: The Methodology Center, The Pennsylvania State University, The Methodology Center.

Lanza, S. T., Tan, X., & Bray, B. C. (2011). *A technical introduction: A model-based approach to latent class analysis with distal outcomes*. (Technical Report No. 11-116). University Park, PA: The Pennsylvania State University, The Methodology Center.

Lanza, S. T., Foster, E. M., Taylor, T. K., & Burns, L. (2005). *Assessing the impact of measurement specificity in a behavior problems checklist: An IRT analysis*. (Technical Report No. 05-75). University Park, PA: The Pennsylvania State University, The Methodology Center.

Lanza, S. T. (2003). *Latent stage sequence analysis*. (Technical Report No. 03-55). University Park, PA: The Pennsylvania State University, The Methodology Center.

Maldonado-Molina, M. M., Collins, L. M., & **Lanza**, S. T. (2002). *Using latent transition analysis to test the gateway hypothesis of drug use onset in the Add Health data* (Technical Report No. 02-54). University Park, PA: The Pennsylvania State University, The Methodology Center.

Tan, Z., **Lanza**, S. T., & Collins, L. M. (2001). *Modeling adolescent substance use using latent transition analysis: The Healthy for Life data set* (Technical Report No. 01-44). University Park, PA: The Pennsylvania State University, The Methodology Center.

Hyatt (Lanza), S. L., & Collins, L. M. (2000). *Inference in latent transition models: Results from a simulation study.* (Technical Report No. 00-38). University Park, PA: The Pennsylvania State University, The Methodology Center.

Hyatt (Lanza), S. L., & Collins, L. M. (1999). *Pubertal timing and the stages of drug use: Detailed results based on data augmentation*. (Technical Report No. 99-35). University Park , PA: The Pennsylvania State University, The Methodology Center.

Hyatt (Lanza), S. L., Collins, L. M. , & Schafer, J. L. (1999). *Using data augmentation to conduct hypothesis testing in LTA*. (Technical Report No. 99-34). University Park, PA: The Pennsylvania State University, The Methodology Center.

Hyatt (Lanza), S. L. (1998). *Modeling the onset of substance use using latent transition analysis: The effects of perceived parental permissiveness*. (Technical Report No. 98-29). University Park, PA: The Pennsylvania State University, The Methodology Center.

Hyatt (Lanza), S. L., & Collins, L. M. (1998). *Estimation in latent transition models with missing data.* (Technical Report No. 98-22). University Park, PA: The Pennsylvania State University, The Methodology Center.

Software and Multimedia Products

Led development of PROC LCA & PROC LTA, SAS procedure for estimating latent class and latent transition models.

The Penn State Methodology Center (Producer). (2017). *1 & 1 on time-varying effect modeling with Stephanie Lanza* [Video]. Available from https://www.youtube.com/watch?v=Bybg-aEeRGY&t=279s

The Penn State Methodology Center (Producer). (2016). *Introduction to the time-varying effect model with Stephanie Lanza* [Video]. Available from https://www.youtube.com/watch?v=RmJDRWjp2ow

PROC LCA & PROC LTA (Version 1.3.2) [Software]. (2015). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Dziak, J. J., Huang, L., Wagner, A., & Collins, L. M. (2015). *PROC LCA & PROC LTA users' guide* (Version 1.3.2). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Dziak, J. D., Yang, J., Tan, X., Bray, B. C., & Wagner, A. T., & **Lanza**, S. T. (2015). LCA distal SAS macro users' guide (Version 3.0). University Park: The Methodology Center, Penn State. Available from http://methodology.psu.edu

LCA Distal SAS Macro (Version 3.0) [Software]. (2015). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Dziak, J. J., Huang, L., Wagner, A. T., & Collins, L. M. (2013). *Proc LCA & Proc LTA users' guide* (Version 1.3.0). University Park: The Methodology Center, Penn State. Available from http://methodology.psu.edu

The Methodology Center, Penn State (Producer). (2013, January 22). Methodology minutes: Latent class analysis (LCA) Part 2: Extensions of LCA with Stephanie **Lanza** and Bethany Bray [Audio podcast]. Retrieved from http://methodology.psu.edu/multimedia/podcast

The Methodology Center, Penn State (Producer). (2012, November 26). Methodology minutes: Latent class analysis (LCA) Part 1: Common questions about LCA with Stephanie **Lanza** and Bethany Bray [Audio podcast]. Retrieved from http://methodology.psu.edu/multimedia/podcast

LCA Distal SAS Macro (Version 2.0) [Software]. (2012). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Yang, J., Tan, X., **Lanza**, S. T., & Wagner, A. T. (2012). Lca distal SAS macro users' guide (Version 2.0). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Dziak, J. J., **Lanza**, S. T., & Xu, S. (2011). *LCA Bootstrap SAS macro users' guide* (Version 1.1.0). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Dziak, J. J., Huang, L., Xu, S., & Collins, L. M. (2011). *PROC LCA & PROC LTA users' guide* (Version 1.2.7). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

LCA Bootstrap SAS Macro (Version 1.1.0) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

LCA Distal SAS Macro (Version 1.1.0) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

PROC LCA & PROC LTA (Version 1.2.7) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Tan, X., **Lanza**, S. T., & Wagner, A. T. (2011). *LCA distal SAS macro users' guide* (Version 1.1.0). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

SAS Graphics Macros for Latent Class Analysis (Version 1.0) [Software]. (2010). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Dziak, J. J., & **Lanza**, S. T. (2010). *SAS graphics macros for latent class analysis: Users' guide* (Version 1.0). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Lemmon, D. R., Dziak, J. J., Huang, L., Schafer, J. L., & Collins, L. M. (2010). *PROC LCA & PROC LTA users' guide* (Version 1.2.5 beta). University Park: The Methodology Center, Penn State.

PROC LCA & PROC LTA *(*Version 1.2.5 beta). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Lemmon, D. R., Dziak, J. J., Huang, L., Schafer, J. L., & Collins, L. M. (2009). *PROC LCA & PROC LTA users' guide* (Version 1.2.3 beta). University Park: The Methodology Center, Penn State.

PROC LCA & PROC LTA (Version 1.2.3 beta). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Lanza, S. T., Lemmon, D. R., Schafer, J. L., & Collins, L. M. (2008). *PROC LCA & PROC LTA users' guide* (Version 1.1.5 beta). University Park: The Methodology Center, Penn State.

Lemmon, D. R., & **Lanza**, S. T. (2008). *PROC LCA & PROC LTA* (Version 1.1.5 beta). University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Collins, L.M., **Lanza**, S. T., Schafer, J. L., & Flaherty, B. P. (2004). *WinLTA 3.1*. University Park: The Methodology Center, Penn State. Retrieved from http://methodology.psu.edu

Collins, L. M., **Lanza**, S. T., Schafer, J. L., & Flaherty, B. P. (2002). *WinLTA users' guide* (Version 3.0). University Park: The Methodology Center, Penn State.

Collins, L. M., **Lanza**, S. T., & Schafer, J. L. (2002). *WinLTA users' guide for data augmentation*. University Park: The Methodology Center, Penn State.

Presentations

Invited Presentations and Workshops (Selected)

Lanza, S. T., Bray, B. C., & Shen, Y. (2025, April). *Multilevel Latent Class Analysis (MLCA) to Model Complex Behavior in Intensive Longitudinal Data*. Pre Conference Course to be presented at the 47th Annual Meeting of the Society for Behavioral Medicine, Chicago, IL.

Bray, B. C., & **Lanza**, S. T. (2025, October). *Introduction to latent transition analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T., & Bray, B. C. (2025, March). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Bray, B. C., & **Lanza**, S. T. (2024, September). *Introduction to latent transition analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T. (2024, February). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented for the Penn State Clinical and Translational Science Institute's Biostatistics and Epidemiology and Research Design (BERD), Recent Topics in Research Methods Seminar Series.

Lanza, S. T., & Bray, B. C. (2024, February). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T., & Bray, B. C. (2023, February). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T., & Bray, B. C. (2022, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T. (2022, March). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented at the Clemson University School of Mathematical and Statistical Sciences: Statistics and Probability Seminar.

Lanza, S. T. (2022, March). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented for the American Statistical Association, New York City Metro Area Chapter.

Lanza, S. T. (2022, February). *Statistics for the good of the people*. Talk presented for the Penn State Women+ in Statistics and Data Science Group, Journeys in Statistics and Data Science Series. University Park, PA.

Lanza, S. T., & Griffin, P. (2021, July). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's strategic plan*. Talk presented for the Penn State Strategic Plan Oversight Committee.

Bray, B. C., & **Lanza**, S. T., (2021, July). *Latent class, latent profile, and latent transition analysis*. Workshop presented at the ICPSR Summer Program for the Institute for Social Research at the University of Michigan.

Lanza, S. T., & Bray, B. C. (2021, June). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2021, June). *Latent class analysis with time-varying covariate effects: A simulation study and empirical example of LCA-TVEM*. Paper presented at the Western North American Region of the International Biometric Society Annual Meeting.

Lanza, S. T., & Bray, B. C. (2020, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T. (2020, November). *Prevention and methodology: Where will the perfect marriage head next?* Talk presented for the Social Development Research Group Leaders in Prevention Science speaker series, Seattle, WA.

Lanza, S. T. (2020, August). *Penn State's Consortium to Combat Substance Abuse (CCSA): Building Interdisciplinary Capacity to Address Complex Issues*. Talk presented for the Joint Statistical Meetings.

Lanza, S. T., & Whetzel, C. (2020, June). *Impacts of COVID-19 on Penn State undergraduate students*. Talk presented for the HHD On Location: Home Edition, College of Health and Human Development, Pennsylvania State University, University Park, PA. https://psu.mediaspace.kaltura.com/playlist/dedicated/159937501/1_r9j6pe2z/1_pkd8n3kc

Lanza, S. T., & Kreager, D. (2020, May). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's strategic plan*. Talk presented for the Penn State Strategic Plan Oversight Committee.

Lanza, S. T., & Bray, B. C. (2019, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2019, November). *Consortium to Combat Substance Abuse: A Penn State Commitment to Impact*. Talk presented for Penn State's College of Health and Human Development Alumni Society Board Meeting. University Park, PA.

Lanza, S. T. (2019, September). *Consortium to Combat Substance Abuse*. Talk presented for the Penn State Board of Trustees – Outreach, Development, and Community Relations Committee. University Park, PA.

Lanza, S. T. (2019, July). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's enhancing health strategic priority area*. Talk presented for the Penn State Strategic Plan Oversight Committee. University Park, PA.

Lanza, S. T. (2019, June). *Advancing evidence-based prevention: Penn State's Commitment*. Talk presented at the annual conference of Pennsylvania's Commonwealth Prevention Alliance. University Park, PA.

Lanza, S. T. (2019, May). *Enhancing the Reach and Impact of Drug Abuse and Behavioral Health Preventive Interventions: Mining Existing Data for Bold New Discoveries*. Roundtable discussant at the Society for Prevention Research 27th Annual Meeting: "Prevention Science in a Big Data World." San Francisco, CA.

Lanza, S. T. (2019, February). *The Consortium to Combat Substance Abuse*. Talk presented for Penn State's University Health Sciences Council, University Park, PA.

Lanza, S. T. (2019, January). *The Consortium to Combat Substance Abuse*. Panelist at the Penn State Town Hall, University Park, PA.

Lanza, S. T. (2018, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T., & Russell, M. A. (2018, June). *Summer institute on innovative methods: Analysis of Ecological Momentary Assessment Data Using Multilevel Modeling and Time-Varying Effect Modeling*. Workshop presented at the Pennsylvania State University, University Park, PA.

Lanza, S. T. (2018, May). *Understanding and Advancing NIH-Funded Prevention Research: The Case of Substance Use Prevention*. Roundtable discussant at the Society for Prevention Research 26th Annual Meeting: "Optimizing the Relevance of Prevention Science to Systems," Washington, DC.

Russell, M. A., & **Lanza**, S. T., (2018, April). *Analysis of ambulatory assessment data in behavioral medicine*. Workshop presented at the annual meeting of the Society for Behavioral Medicine, New Orleans, LA.

Lanza, S. T. (2017, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2017, April). *Introduction to latent class analysis*. Workshop presented at the Jack, Joseph, and Morton Mandel School of Applied Social Sciences, Case Western Reserve University, Cleveland, OH.

Lanza, S. T. (2016, November). *Time-varying effect modeling to study developmental and dynamic processes*. Population Research Institute: Innovative Methods Working Group lecture. University Park, PA.

Lanza, S. T. (2016, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2016, May). *Time as a key variable in health behavior research*. National Cancer Institute Workshop: Extending Methods in Dietary Patterns Research. Rockville, MD.

Lanza, S. T. (2016, May). *Using preventive interventions to better understand etiological mechanisms and risk for suicide*. Roundtable discussion at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T. (2016, April). *Advancing mixture modeling: Determinants of latent class membership*. Invited talk given at the Dartmouth College Institute for Health Policy and Clinical Practice. Hanover, NH.

Lanza, S. T., & Bray, B. C. (2016, April). *Introduction to Latent Class Analysis for Health Behavior Research*. Invited workshop given at the Penn State Department of Public Health Sciences, Hershey, PA.

Lanza, S. T., & Vasilenko, S. A. (2016, March). *Time-varying effect modeling in developmental research on adolescence*. Pre-conference workshop presented at the annual meeting of the Society for Research on Adolescence, Baltimore, MD.

Lanza, S. T. (2016, February). *Time-varying effect modeling to study developmental and dynamic processes*. CTSI-BERD Recent Topics in Research Methods Seminar. University Park, PA.

Lanza, S. T. (2016, January). *Time-varying effect modeling to study developmental and dynamic processes*. NIH Office of Disease Prevention, Medicine: Mind the Gap lecture. Bethesda, MD.

Lanza, S. T., & Bray, B. C. (2016, January). *Latent class, latent profile, and latent transition analysis*. Workshop presented at the T. Denny Sanford School of Social and Family Dynamics, Arizona State University, Phoenix, AZ.

Lanza, S. T. (2015, December). *Time-varying effect modeling to study developmental and dynamic processes*. Presented at the University of Pittsburgh Public Health Dynamics Lab, Pittsburgh, PA.

Lanza, S. T. (2015, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T., & Russell, M. A. (2015, June). *Advanced analytics for intensive longitudinal data analysis*. Pre-conference workshop presented at the annual meeting of the Society for Ambulatory Assessments, University Park, PA.

Lanza, S. T., & Vasilenko, S. A. (2015, June). *Summer institute on innovative methods: Introduction to the time-varying effect model*. Workshop presented at the Pennsylvania State University, University Park, PA.

Lanza, S. T. (2015, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2014, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2014, June). *Intensive longitudinal data to advance behavioral research: Data integration opportunities and challenges*. Presented at Big Data to Knowledge (BD2K) Data Integration Meeting, Bethesda, MD.

Lanza, S. T., & Bray, B. C. (2014, May). *Integrating propensity scores with latent class analysis to identify determinants of latent class membership*. Presented at Statistics and Causality conference, Vienna, Austria.

Lanza, S. T., & Vasilenko, S. A. (2014, May). *Time-varying effect models in prevention science*. Pre-conference workshop presented at the annual meeting of the Society for Prevention Research, Washington, DC.

Lanza, S. T. (2014, May). *Time-varying effect models to analyze intensive longitudinal data*. Workshop presented at the Taste of Methodology, University Park, PA.

Lanza, S. T. (2014, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2013, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.

Lanza, S. T. (2013, October). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychological Sciences Alcohol Studies Program, University of Missouri, Columbia, MO.

Bray, B. C., **Lanza**, S. T., & Coffman, D. L. (2013, October). *The causal effect of substance use latent class membership on a distal outcome*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.

Coffman, D. L., Bray, B. C., **Lanza**, S. T., & Dierker, L. C. (2013, October). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.

Lanza, S. T. (2013, June). *Latent class and latent transition analysis*. Workshop presented at the Summer Quantitative Methods Series at Portland State University, Portland, OR.

Lanza, S. T., & Bray, B. C. (2013, June). *Summer Institute on Longitudinal Methods: Introduction to latent class analysis*. Workshop presented at the Pennsylvania State University, University Park, PA.

Lanza, S. T., Butera, N. M., & Vasilenko, S. (2013, March). *Defining "time" in time-varying effect models: Applications of TVEM to cross-sectional and panel data*. Presented at the Methodology Center, Penn State. University Park, PA.

Lanza, S. T. (2012, September). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychiatry Grand Rounds, Penn State. Hershey, PA.

Lanza, S. T. (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model.* Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State. University Park, PA.

Lanza, S. T. (2012, December). *An Introduction to latent class analysis*. Presented at the Taste of Methodology, University Park, PA.

Lanza, S. T., & Bray, B. C. (2012, October). *Latent class analysis*. Presented for Methods Work, Silver Spring, MD.

Lanza, S. T. (2012, July). *Latent class analysis in sociological research*. Invited workshop presented at the Center for Family and Demographic Research, Bowling Green, OH.

Lanza, S. T. (2012, April). *Latent class analysis*. Preconference workshop presented at the Society for Behavioral Medicine, New Orleans, LA.

Lanza, S. T., & Piper, M. E. (2012, March). *A demonstration of the time-varying effect model (TVEM): The dynamic role of dependence on craving during quit attempts*. Invited talk presented at pre-conference workshop at the Society for Research on Nicotine and Tobacco annual meetings, Houston, TX.

Lanza, S. T. (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model.* Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State. University Park, PA.

Lanza, S. T. (2012, February). C*ausal inference in latent class analysis*. Penn State Population Research Institute, University Park, PA.

Lanza, S. T., & Collins, L. M. (2012, February). *Latent class analysis*. Presented for Methods Work, Pittsburgh, PA.

Collins, L. M., & **Lanza**, S. T. (2011, August). *Latent class analysis*. Presented for Methods Work, Atlanta, GA.

Also presented October, 2011 for Methods Work, Washington, DC.

Lanza, S. T. (2010, March). *At the Intersection of Statistics and the Behavioral Sciences: An Application of Latent Transition Analysis*. Presented at the Department of Statistics 2010 Alumni Workshop, University Park, PA.

Lanza, S. T. (2009, September). *Subgroup analysis from a latent class analysis approach*. Presented at the Interagency Federal Methodological Meeting: Subgroup Analysis in Prevention and Intervention Research, Bethesda, MD.

Collins, L. M., & **Lanza**, S. T. (2009, June). *Summer Institute on Longitudinal Methods: Latent class and latent transition analysis*. Presented at the Pennsylvania State University, University Park, PA.

Lanza, S. T. (2008, December). *Data sharing requirements: The analyst's perspective*. Presented at the NIDA Crossroads: Sharing Social Environment and Genetic Data Meeting, Bethesda, MD.

Collins, L. M., **Lanza**, S. T., & Bray, B. C. (2008, September). *Masterclass: Latent class analysis for cross-sectional and longitudinal data*. Presented at the Department of Mathematics and Statistics Postgraduate Statistics Centre of Lancaster University and the Economic and Social Research Council National Centre for Research Methods, Lancaster, United Kingdom.

Lanza, S. T. (2008, July). *Methodological/Statistical Issues in Grant Proposal Development*. Presented at the NIH Addiction Research Training Institute: Leadership Development Workshop, Atlanta, GA.

Lanza, S. T. (2008, July). *Modeling sexual risk behavior as a categorical latent variable*. Presented at the NIDA Sexual Acquisition and Transmission of HIV Cooperative Agreement program (SATH-CAP) Analytic Workgroup Meeting, Bethesda, MD.

Lanza, S. T. (2008, June). *Secondary data analysis*. Panel member at the Society for Prevention Research annual meeting, San Francisco, CA.

Lanza, S. T., & Rhoades, B. (2008, March). *Modeling multiple risks for child development: Variable-oriented and person-oriented approaches*. Presented at the joint Prevention and Methodology Centers seminar, The Pennsylvania State University, University Park, PA.

Maldonado-Molina, M. M., & **Lanza**, S. T. (2008, March). *Latent transition analysis: Patterns of drug use among adolescents*. Presented at the Addictive & Health Behaviors Research Institute, Jacksonville, FL.

Lanza, S. T. (2007, November). *Latent transition analysis for modeling change over time: A demonstration of SAS PROC LTA*. Presented at the American Public Health Association conference, Washington, D.C.

Collins, L. M., & **Lanza**, S. T. (2007, February). *Latent class analysis for cross-sectional and longitudinal data*. Workshop presented at the 36th ZA Spring Seminar. The University of Cologne, Germany.

Lanza, S. T. (2006, October). *An introduction to latent class analysis and several extensions*. Presented at the Quantitative Social Sciences Initiative seminar series, The Pennsylvania State University, University Park, PA.

Lanza, S. T. (2006, August). *Latent transition analysis: Modeling stage-sequential development*. Workshop resented at the Center for Advancing Longitudinal Drug Abuse Research, Summer Institute on Longitudinal Research, University of California, Los Angeles, CA.

Collins, L. M., & **Lanza**, S. T. (2006, June). *Introduction to latent class and latent transition analysis*. Presented at the Institute on Developmental Science, University Park, PA.

Lanza, S. T. (2006, May). *Latent transition analysis for modeling discrete change in longitudinal data*. Workshop presented at the Center for Advancing Longitudinal Drug Abuse Research, University of California, Los Angeles, CA.

Lanza, S. T. (2006, April). *Latent class and latent transition analysis for substance use research*. Workshop presented at the Oregon Research Institute, Eugene, OR.

Lanza, S. T. (2005, October). *Multilevel modeling with HLM*. Workshop presented at the National Recreation and Park Association conference, San Antonio, TX.

Lanza, S. T. (2005, June). *Modeling drug-taking behavior in rats: Mixed models in application*. Workshop presented at the College on Problems of Drug Dependence conference, Orlando, FL.

Lanza, S. T. (2004, June). *An HLM workshop*. Workshop presented at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC. Also presented August, 2003 at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC.

Organized Sessions

Lanza, S. T. (2019, May). *Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention*. Organized session for the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T., Maldonado-Molina, M. M., Dishion, T., Mason, W. A., Mason, M. J., Modave, F., & Leve, L. D. (2017, May). *SPR mapping advances in prevention science (MAPS) V task force: Big data.* Annual Meetings of the Society for Prevention Research, Washington, D.C.

Lanza, S. T. (2017, March). *Time-varying effect modeling to shed new light on the developmental course of nicotine product use in the US*. Organized session for the Annual Meeting of the Society for Research on Nicotine and Tobacco, Florence, Italy.

Lanza, S. T., & MacKinnon, D. (2012, June). *New approaches to differential effects: Moving beyond traditional moderation using mixture models.* Symposium presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Lanza, S. T. (2011, June). *Innovations in latent class analysis: New Approaches to address classic questions*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S. T. (2011, June). *Applications of novel methods for analysis of intensive longitudinal data in studies on drug use*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S. T. (2008, May). *Advanced statistical modeling of sexual risk behavior over time*. Organized session for the Society for Prevention Research conference, San Francisco, CA.

Lanza, S. T. (2006, June). *Advances in latent class and latent transition analysis*. Session chair at the annual meeting of the Society for Prevention Research, San Antonio, TX.

National and International Conference Presentations

**Mongilio, J. M., Kcomt, L., Lanza, S. T., Pasman, E., Clift, J., & Evans-Polce, R. J. (2026, March). Patterns of ENDS-Related Content Exposure on Social Media among U.S. Adolescents and Young Adults. Poster to be presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

Miller, S., Maggs, J., & Lanza, S. T. (2025, November). *A latent class analysis of health characteristics among non-drinking middle-aged and older adults*. Poster to be presented at the annual meeting of the Gerontological Society of America, Boston, MA.

Perry, K. J., Lanza, S. T., & Eiden, R. D. (2025, June). *Time varying associations between female smokers' depressed mood and level of cigarette use from the second trimester of pregnancy to 24-months of child age*. Poster presented at the annual meeting of the College on Problems of Drug Dependence, New Orleans, LA.

**Stull, S. W., Marsch, L. A., Epstein, D. H., & Lanza, S. T. (2025, June). Daily Enjoyable Activities During Recovery from Opioid Use Disorder: Characterizing types of daily activities using multilevel latent class analysis. Poster presented at the annual meeting of the College on Problems of Drug Dependence, New Orleans, LA.

**Tao, X., Janssen, T., Gabrielli, J., **Contreras Perez, M. E., Colby, S., Wray, T., Meisel, M., Lanza, S. T., & Jackson, K. (2025, June). Associations between Multilevel Latent Classes of Daily Social Media Activities and Media Exposure to Alcohol Consequences among Adolescents. Poster presented at the annual meeting of the Research Society on Alcoholism, New Orleans, LA.

Lanza, S. T., Shen, Y., Bhandari, S. & Bray, B. C. (2025, May). What (kinda) day is it? Who am I? Multilevel latent class analysis to estimate classes at two levels. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium.

**Stull, S. W., Marsch, L. A., Epstein, D. H., & Lanza, S. T. (2025, May). Daily Enjoyable Activities and Quality of Life Among People Recovering from Addiction: Latent Class Analysis Applied to Daily Diary Data. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium. (withdrawn)

Wang, D., Linden-Carmichael, A. N., & Lanza, S. T. (2025, May). *Examining Yesterday's Substance Use and Psychological Mood on Missingness in Today's EMA*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium.

Bayly, B. L., Shrestha, G., Cooper, B. R., & Lanza, S. T. (2025, May). *A reanalysis of the Strengthening Families Program: Time-Varying Effect Modeling to Identify Dosage Thresholds*. Paper presented at the annual meeting of the Society for Prevention Research, Seattle, WA.

Linden-Carmichael, A. N., Lanza, S. T., Sokolovsky, A., & Jackson, K. (2025, May). *Uncovering the Heterogeneity of Simultaneous Alcohol and Cannabis Use at the Day-Level Among Young Adults: A Multilevel Latent Class Analysis*. Poster presented at the annual meeting of the Society for Prevention Research, Seattle, WA.

*Mendu, S., Doyle Fosco, S., Lanza, S., & Abdullah, S. (2025, April). *"Learning to Live with Pain": Designing a Voice Assistant to Support Mindfulness-Based Pain Management.* Paper to be presented at the Association of Computing Machinery CHI 2025 Conference on Human Factors in Computing Systems, Yokohama, Japan.

*Chiang, S.-C., Linden-Carmichael, A. N., & Lanza, S. T. (2024, June). *Daily Stress and Alcohol Use among Young Adult College Students: An Application of Latent Class Analysis to Daily Diary Data*. Paper presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.

Lanza, S. T., & Bray, B. C. (2024, June). *Latent Class Modeling in the Context of Intensive Longitudinal Data: Estimation Considerations*. Paper presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.

*Stull, S. W. &, Lanza, S. T. (2024, June). *Multilevel Latent Profile Analysis to Examine Experiences of Reward in Daily Life Among Adults in Opioid Addiction Recovery*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.

*Stull, S. W., & Lanza, S. T. (2024, June). *Daily Fluctuations in Motivation and Perceived Environmental Access of Nondrug Reward Among People in Opioid Use Disorder Recovery: Person- and Day-Level Associations with Experiencing Nondrug Reward*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Montreal, Canada.

*Wang, D., Linden-Carmichael, A. N., *Stull, S. W., & Lanza, S. T. (2024, June). *Examining Compliance in Ecological Momentary Assessment: Modeling the Autoregressive Nature of Moment-Level Missingness*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.

Andrushko, Y., & Lanza, S. T. (2024, May). *Ukrainian Citizens' Resilience, Acculturation, and Well-Being in the Context of Forced Migration*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, DC.

*Wang, D., & Lanza, S. T., *Stull, S. W., & Linden-Carmichael, A. N. (2024, May). Latent Class Analysis of Daily Substance Co-Use Patterns in Young Adults: Leveraging Daily Diary Data to Identify Complex Phenotypes. Poster presented at the annual meeting of the Society for Prevention Research, Washington, DC.

Evans-Polce, R., Maggs, J. L., Lanza, S. T., & Patrick, M. E. (2024, May). Negative Consequences Associated with Daily Alcohol Use as a Nonlinear Function of Number of Drinks in a Daily Diary Study. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.

Doyle Fosco, S. L., Mendu, S., Lanza, S. T., & Abdullah, S. (2024, May). "Learning to Live with Pain": Designing a Voice Assistant to Deliver Mindfulness-Based Stress Reduction Practices for Individuals Living with Chronic Pain. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.

Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2024, March). *Innovative Latent Class Models for Nicotine and Tobacco Research: Online Resources of the Latent Class Analysis Knowledge Base*. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting, Edinburgh, Scotland.

Lanza, S. T., Linden-Carmichael, A. N., Bray, B. C., & Jackson, K. (2024, March). *Modeling Contextual Heterogeneity in Young Adult Vaping Behaviors: A Multilevel Latent Class Analysis of Daily Diary Data*. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting, Edinburgh, Scotland.

*Wang, D., **Lanza**, S. T., Stull, S. W., Dennis, M., Scott, C. K. (2023, June). *Momentary latent class membership to predict self-efficacy and subsequent substance use*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Denver, CO.

*Stull, S. W., **Lanza**, S. T., & Epstein, D. H. (2023, June). *Nondrug reward and recovery from addiction: Socio-spatial contexts, interindividual heterogeneity, and change over time*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Denver, CO.

Rahal, D., Linden-Carmichael, A. N., & **Lanza, S. T. (May, 2023) *Affect variability and frequency and intensity of alcohol use*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC.

Lanza, S. T. (May, 2023). Panel Member in A. Romberg (Chair), *Building Positive Feedback Loops between Epidemiology and Prevention Intervention Research* [Roundtable]. Symposium presented at the Society for Prevention Research Annual Meeting, Washington, DC.

Hochgraf, A. K., Berge, J. M., & **Lanza, S. T. (May, 2023). *Implications of Lability and Level of Body Dissatisfaction across Days for Psychological and Behavioral Health Among Young Adults*. Poster presented at the Society for Prevention Research Annual Meeting, Washington, DC.

Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (2023, April). "Alexa, I'm in pain!": Development of a Voice Interface to Support Mindfulness Practice for Individuals with Chronic Pain. Poster presented at the annual meeting of the Computing Research Association-Widening Participation, San Francisco, CA.

Hochgraf, A. K., Berge, J. M., & **Lanza, S. T. (April, 2023). *Developmental patterns of comorbidity between weight control behaviors and suicidal ideation across adolescence: New insights from TVEM* [Paper presentation]. Society for Research on Adolescence Annual Meeting, San Diego, CA.

*Sloan, C.J., **Lanza**, S.T., LoBraico, E.J., Feinberg, M.E., & Fosco, G.M. (March, 2023). Latent profiles of parent-child agreement and divergence in parental warmth and correlates with interparental conflict. In Fosco, G.M. (chair), *Lost in conceptualization? Seeking new insights by examining the function and context of parenting practices.* Paper presented at Society for Research on Child Development biennial meeting, Salt Lake City, UT, USA.

*Shakya, E., Whetzel, C. A., **Lanza**, S. T., & Na, M. (2022, June). *Association between food insecurity and depressive symptoms in college students before and during the COVID-19 pandemic*. Poster presented at American Society for Nutrition Annual Meeting, Virtual Conference.

Lanza, S. T., *Stull, S. W., Linden-Carmichael, A. N., & Bray, B. C. (2022, June). Daily latent class membership and associations with acute consequences. In A. B. Neubauer (Chair), *Advances in Modeling Heterogeneity Within and Between Individuals in Intensive Longitudinal Data.* Paper presented at the Society for Ambulatory Assessments Annual Meeting, Virtual Conference.

Linden-Carmichael, A. N., *Van Doren, N., Bray, B. C., Jackson, K. M., & **Lanza**, S. T. (2022, June). *Daily substance use patterns and implications for substance-related consequences: An application of latent class analysis for daily diary data.* Poster presented at the Research Society on Alcohol Annual Meeting, Orlando, FL.

*Stull, S. W., Linden-Carmichael, A. N., & **Lanza**, S. T., Dennis, M.L., Scott, C.K. (2022, June). Time-varying effect modeling to estimate dynamic moderation effects: Affect as a moderator of craving and substance use across the first 90 days of recovery. In A. B. Neubauer (Chair), *Advances in Modeling Heterogeneity Within and Between Individuals in Intensive Longitudinal Data.* Paper presented at the Society for Ambulatory Assessments Annual Meeting, Virtual Conference.

Lanza, S. T. (2022, May). Discussant in I. Rhew (Chair), *Longer- and Shorter-Term Associations of Loneliness with Substance Use and Related Outcomes before and during the COVID-19 Pandemic* [Symposium]. Symposium presented at the Society for Prevention Research Annual Meeting, Seattle, WA.

*Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2022, May). *Body dissatisfaction as a novel day-level risk factor for nicotine vaping among young adults during the COVID-19 pandemic* [Paper presentation]. Society for Prevention Research Annual Meeting, Seattle, WA.

*Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2022, March). Age-varying associations between attempts to lose weight and nicotine vaping across adolescence: Results from a nationally representative sample [Paper presentation]. In A. K. Hochgraf (Chair), *Insights into Developmental Timing and Prevention of Adolescent Adjustment and Behavioral Problems from Time-Varying Effect Modeling* [Symposium]. Paper presented at the Society for Research on Adolescence Biennial Meeting, New Orleans, LA.

*McCauley, D. M., Fosco, G. M., & **Lanza**, S. T. (2022, March). Evaluating developmental change in links between adolescents' threat appraisals of interparental conflict and school adjustment, self-efficacy, and peer support: Insights from Time-Varying Effect Modeling. In A. K. Hochgraf (Chair), *Insights into Developmental Timing and Prevention of Adolescent Adjustment and Behavioral Problems from Time-Varying Effect Modeling* [Symposium]. Paper presented at the Society for Research on Adolescence Biennial Meeting, New Orleans, LA.

Lanza, S. T., *Stull, S. W., Dennis, M. L., & Scott, C. K. (2021, July). *Momentary latent class membership during recovery from substance use disorder*. Paper presented at the Society for Ambulatory Assessment biannual meeting, Virtual Conference.

Allen, H. K., Linden-Carmichael, A. N., & **Lanza**, S. T. (2021, June). *The age-varying association between sleep and alcohol use disorder across adulthood: Ages 18 to 65*. Poster presented at the annual meeting of the Research Society on Alcoholism Annual Meeting, Virtual Conference.

*Stull, S. W., Scott, C. K., Dennis, M. L., & **Lanza**, S. T. (2021, June). *Affect risk profiles derived from two days of EMA reports predict substance use three- and six-months after SUD treatment*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Virtual Conference.

Linden-Carmichael, A. N., Allen, H. K., & **Lanza**, S. T. (2021, June). *A daily diary investigation of the socio-environmental context of simultaneous alcohol and marijuana use among young adults.* Paper presented at the annual meeting of the Society for Prevention Research, Virtual Conference.

*McCauley, D. M., Fosco, G. M., & **Lanza**, S. T. (June, 2021). *Developmental links between interparental conflict, adolescent threat appraisals, and internalizing problems*. Paper presented at the Society for Prevention Research, Virtual Conference.

Jones, D. R., Allen, H. K., **Lanza, S. T., & Graham-Engeland, J. E. (2021, April). *Daily associations between affect and alcohol use among adults: The importance of affective arousal*. Poster presented at the Society of Behavioral Medicine Annual Meeting & Scientific Sessions.

Allen, H. K., Linden-Carmichael, A. N., & **Lanza, S. T. (2020, October). *Alcohol use disorder and employment across adulthood: Age-varying associations*. Poster presented at the annual meeting of the American Public Health Association, San Francisco, CA.

*Van Doren, N., Linden-Carmichael, A. N., Bray, B.C., **Lanza**, S. T. (2020, June). *Examining daily patterns of substance use in young adults and their relation to daily stress and negative affect: An application of Latent Class Analysis to daily diary data.* Poster presented at the Modern Modeling Methods Conference. Storrs, CT. (Conference cancelled).

Cloutier, R.M., *Calhoun, B.H., **Lanza, S.T., & Linden-Carmichael, A.N. (2020, May). *A daily-level examination on the role of social contexts in young adult cannabis use and consequences.* Poster accepted to the annual meeting of the Society for Prevention Research, Washington, D. C. [Poster cancelled due to COVID]. Selected for Society for Prevention Research Abstract of Distinction.

*Stull, S., *Cloutier, R. M., Linden-Carmichael, A. N., & **Lanza**, S. T. (2020, May). *The role of parental problematic substance use in offspring co-morbid major depressive disorder and substance use disorder*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Allen, H.K., Linden-Carmichael, A.N., & **Lanza, S.T. (2020, April). The age-varying association between sleep and alcohol use disorder across adulthood: Ages 18 to 65. In A.T. Brooks (Chair), *Sleep and alcohol use across the lifespan: A presentation supported by the SBM Sleep SIG*. Symposium presented at the Society of Behavioral Medicine Annual Meeting and Scientific Sessions, San Francisco, CA. (Conference cancelled).

Linden-Carmichael, A. N., Masters, L. D., Luneke, A. C., & **Lanza**, S. T. (2019, June). *"Buzzwords": Crowd-sourcing young adult language to capture momentary feelings of alcohol and marijuana intoxication*. Paper presented at the annual meeting of the Society for Ambulatory Assessment, Syracuse, NY.

Russell, M. A., Linden-Carmichael, A. N., **Lanza**, S. T., & Piasecki, T. (2019, June). *Affective Trends Prior to and After Drinking in an Ecological Momentary Assessment (EMA) Protocol: An Application of Three-Level Time-Varying Effect Modeling (TVEM)*. Paper presented at the annual meeting of the Society for Ambulatory Assessment, Syracuse, NY.

Linden-Carmichael, A. N., Masters, L. D., & **Lanza**, S. T. (2019, June). Simultaneous alcohol and marijuana use versus single-substance use occasions: Differences by perceived daily stress. In J. Merrill and J. Wardell (Co-Chairs), *Advancements in research on the cannabis-alcohol link: Part 2 - Event-level antecedents and consequences of simultaneous use*. Symposium presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.

Allen, H. K., Linden-Carmichael, A. N., **Lanza**, S. T., Vincent, K. B., & Arria, A. M. (2019, June). *Dynamic associations between alcohol use and academic burnout throughout doctoral programs: variations by degree type*. Poster presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.

Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2019, May). *Combining latent class analysis with time-varying effect modeling: Understanding the epidemiology of alcohol use*. Paper presented at the 27th annual meeting of the Society for Prevention Research: "Prevention Science in a Big Data World," San Francisco, CA.

Hochgraf, A. K., **Lanza**, S. T., & McHale, S. M. (2019, May). *Gender differences in the time-varying association between cigarette use and weight concerns across adolescence*. Poster presented at the 27th annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T., Masters, L. D., & Linden-Carmichael, A. N. (2019, May). *Contemporary Trends in Nonmedical Drug Use As a Function of Individual and Sociodemographic Characteristics: Ages 12 to 90*. In S. Lanza (Symposium Organizer), Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention. Symposium presented at the 27th annual meeting of the Society for Prevention Research, San Francisco, CA.

Linden-Carmichael, A. N., Masters, L. D., Allen, H. K. & **Lanza**, S. T. (2019, May). *Age-Varying Trends in Co-Use of Marijuana and Heavy Episodic Drinking: Implications for Nonmedical Prescription Drug Use*. In S. Lanza (Symposium Organizer), Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention. Symposium presented at the 27th annual meeting of the Society for Prevention Research, San Francisco, CA.

Gioia, S. A., Branstetter, S. A., **Lanza**, S. T. (2019, March). *Racial Discrimination in Healthcare and Implications for Smoking Likelihood*. Poster presented at the annual meeting of the Society for Behavioral Medicine, Washington, DC.

Braymiller, J. L., & **Lanza**, S. T. (2019, February). *Age-varying associations between e-cigarette, hookah, and marijuana use among young people: Findings from the PATH study*. Paper presented in J. L. Braymiller (Chair), Innovative methods for research on e-cigarettes. Symposium conducted at the meeting of the Society for Research on Nicotine and Tobacco, San Francisco, CA.

Rice, C. E., Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2018, November). *Discrimination and Suicidal Behavior among Sexual Minority Adults in the United States*. Paper presented at the 2018 Gerontological Society of America Conference, Boston, MA.

*Mayer, L., **Lanza**, S. T., & Shalev, I. (2018, September). *Modeling the Age-Varying Link between Smoking and Telomere Length in a Large Sample of US Adults*. Poster presented at the 48th Meeting of the International Society of Psychoneuroendocrinology, Irvine, CA.

Bray, B. C., Dziak, J. J., Patrick, M. E., & **Lanza**, S. T. (2018, June). *Causal analysis with latent class exposures using inverse propensity scores and BCH adjustment*. Poster presented at the 7th Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Chicago, IL.

Linden-Carmichael, A. N., Russell, M. A., & **Lanza**, S. T. (2018, June). *An innovative approach to identify cut-points for problematic drinking in a nationally representative sample of young adults*. Poster presented at the annual meeting of the Research Society on Alcoholism, San Diego, CA.

Vasilenko, S. A., Rice, C. E., & **Lanza**, S. T. (2018, May). *Age-varying prevalence of marijuana and opioid use in the United States during 2001-2002 and 2012-2013*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.

Linden-Carmichael, A. N., Dziak, J. J., Vasilenko, S. A., & **Lanza**, S. T. (2018, April). *Dynamic features of problematic drinking behavior across age*. Poster presented at the annual meeting of the Society of Behavioral Medicine, New Orleans, LA.

*Potter, L., Eccleston, C. P., **Lanza**, S. T., Brondolo, E., Sliwinski, M. J., & Smyth, J. M. (2018, April). *Exploring Quantitative Approaches to Examining the Effects of Multiple Disadvantaged Social Status Indicator on Health*. Poster presented at the annual meeting of the Society of Behavioral Medicine, New Orleans, LA.

*Braymiller, J. L., Branstetter, S. A., & **Lanza**, S. T. (2018, February). *Contemporary Patterns of Nicotine Product Use in High School Aged Adolescents.* Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

*Nye R., *Braymiller J., **Lanza** S. T., Buxton O., & Branstetter S. (February 2018). *Age-varying Associations Between Nicotine Dependence and Sleep*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

Rice, C. E., **Fish, J. N., Russell, S. T., & **Lanza, S. T. (2017, October). *Discrimination and mental health among sexual minority adults in the United States: Implications for community prevention*. Paper presented at Transforming Care: Midwest Conference on LGBTQ Health Equity and HIV/AIDS, Columbus, OH.

**Bekiroglu, K., Lagoa, C. M., Lanza, S. T., & Sznaier, M. (2017, July). *An efficient parsimonious system identification algorithm for non-uniformly sampled data*. 20th IFAC World Congress, Toulouse, France.

Fish, J. N., **Rice, C. E., **Lanza, S. T., & Russell, S. T. (2017, June). *Age-varying rates of sexual identity based discrimination from 18-65: Findings from a national sample*. Paper presented at Improving Population Health: Now, Across People's Lives and Across Generations to Come, Austin, TX.

Linden-Carmichael, A., & **Lanza**, S. T. (2017, June). *Characterizing college and non-college young adult drinking behavior: Findings from a national Sample of 18- to 22-Year-Old Drinkers*. Poster presented at the annual meeting of the Research Society on Alcoholism, Denver, CO.

Lanza, S. T., Scott, S., Smyth, J., Almeida, D., & Sliwinski, M. (2017, June). *Finite mixture modeling to understand within-person affect variability*. Paper presented at the biannual meeting of the Society for Ambulatory Assessment Biennial Meeting, Luxembourg City, Luxembourg.

Rice, C. E., **Fish, J. N., Russell, S. T., & **Lanza, S. T. (2017, June). *Discrimination and mental health among sexual minority adults in the United States: implications for community prevention*. Paper presented at Improving Population Health: Now, Across People's Lives and Across Generations to Come, Austin, TX.

Russell, M. A., **Lanza**, S. T., & Piasecki, T. (2017, June). *Time-to-event analysis using time-varying effect modeling (TVEM) of intensive longitudinal data: Affect leading into and out of drinking episodes.* Paper presented at the biannual meeting of the Society for Ambulatory Assessment Biennial Meeting, Luxembourg City, Luxembourg.

Bediako, P. T., Caldwell, L. L., **Lanza, S. T., Wegner, L., Jacobs, J., & Miller, J. A. (2017, June). *Constructing latent classes of sexual abstinence motives endorsed by South African high school learners*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC

*Braymiller, J. L. & **Lanza**, S. T. (2017, June). *Age trends in nicotine/tobacco product use in the United States: Differences across geographic region.* Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Deutsch, A., & **Lanza**, S. T. (2017, June). *Markers of adulthood and drinking behavior: What types of markers matter, and when?* Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Fish, J. N., **Rice, C. E., **Lanza, S. T., & Russell, S. T. (2017, June). *Using time-varying effect models to explore social etiology: Sexual minority discrimination and suicidality across the lifespan*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Linden-Carmichael, A. N., & **Lanza**, S. T. (2017, June). *An epidemiological latent class analysis of alcohol use behavior among adult drinkers*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Rice, C. E., Vasilenko, S. A., **Lanza, S. T. (2017, May). *Examination of sexual minority health disparities across the life course*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

*Potter, L., **Lanza**, S. T., & Smyth, J. (2017, May). *Sociodemographic patterns of discrimination and health behaviors: Implications for health disparities*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Mama, S. K., Schmitz, K. H., Sciamanna, C. N., Smyth, J. M., **Lanza,** S. T., & Lengerich, E.J. (2017, May). *Partnering to Prevent and Control Cancer (PPCC): An academic-community partnership to address physical inactivity-related cancer health disparities in rural cancer survivors*. Poster presented at the Rural Cancer Control: Challenges and Opportunities Research Meeting, Memphis, TN.

Mello, Z., Youngquist, A., & **Lanza**, S. T. (2017, April). *Time Perspective and Sexual Risky Behavior in Adolescents*. Poster presented at the annual meeting of the Society for Research on Child Development, Austin, TX.

*Braymiller, J. L., & **Lanza**, S. T. (2017, March). *Age-varying rates of nicotine product use throughout adolescence*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco Annual Meeting, Florence, Italy.

Russell, M. A., Vasilenko, S. A., & **Lanza**, S. T. (2017, March). *Low family SES and smoking: Age-varying associations from adolescence to young adulthood.* Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco Annual Meeting, Florence, Italy.

Rice, C. E., Vasilenko, S. A., Turner, A. N., Rosenberger, J. G., Davis, J. A., Fields, K. S., Ervin, M., & **Lanza, S. T. (2016, October). *"Gay Age": Is it associated with risky behavior among MSM?* Transforming Care: Midwest Conference on LGBTQ Health Equity and HIV/AIDS, Columbus, OH.

Rice, C. E., Vasilenko, S. A., Rosenberger, J. G., & **Lanza, S. T. (2016, September). *"Sexual Age" and Sexual Risk Behaviors among Men who have Sex with Men*. STD Prevention Conference, Atlanta, GA.

*Braymiller, J. L., Russell, M. A., & **Lanza**, S. T. (2016, May). *Adolescent e-cigarette use: Age-varying prevalence and association with traditional cigarette smoking*. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Dziak, J. J., Bray, B. C., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2016, May). *SPR tech demo: Free software for data analysis and experimental design from the Penn State Methodology Center*. Technology demonstration presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T. (2016, May). *Using big data to inform healthcare utilization, surveillance, and prevention research*. Discussant presentation given at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T., Vasilenko, S. A., & **Russell, M. A. (2016, May). *Four definitions of "time" in time-varying effect modeling: Examples in marijuana use*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza**, S. T. (2016, May). *Perceived friends' use as a risk factor for marijuana use across young adulthood*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

*Rice, C. E., Vasilenko, S. A., **Lanza**, S. T., Fields, K. S., Ervin, M., & Turner, A. N. (2016, May). *"Gay age" and recreational drug use among men who have sex with men*. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Russell, M. A., *Braymiller, J. L., & **Lanza, S. T. (2016, May). *Time-varying effect of risk-perception on cigarette use among high school seniors*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

*Evans-Polce, R. J., **Lanza**, S. T., & Maggs, J. L. (2016, March). *Social roles and excessive alcohol use across young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.

Russell, M. A., & **Lanza, S. T. (2016, March). *Age-varying associations between witnessing violence, substance use, depression, and health from adolescence to young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.

Lanza, S. T., Bray, B. C., & Dziak, J. J. (2015, May). *Comparing three approaches to latent class analysis with distal outcomes: A scientific summary*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

*Boone, M., Vasilenko, S. A., & **Lanza**, S. T. (2015, May). *Racial differences in the time-varying effect of age of sexual debut on sexual risk behavior*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2015, May). *New online resources and software tools for analysis and design from the Penn State Methodology Center*. Technology demonstration presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

Bray, B. C., **Lanza**, S. T., & Coffman, D. L. (2015, May). *Estimating causal effects with latent class variables: Exposures and outcomes*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

Cook, J. A., Lanza, S. T., *Chu, W., Fiore, M., Baker, T., & Piper, M. (2015, May). *Time-varying treatment effects: The role of anhedonia in smoking quit attempts*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

Russell, M. A., & **Lanza**, S. T. (2015, May). *Violence exposure and adolescent substance use: Age-varying associations by gender*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

*Zhang, J., Dziak, J. J., Bray, B. C., **Lanza**, S. T., & Zhang, M. (2015, May). *Extending latent class analysis with distal outcomes: Recommendations for adding control variables and moderators*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

*Evans-Polce, R.J., Maggs, J., & **Lanza**, S.T. (2014, November). *Latent classes of substance use in college students: Hookah use, other tobacco products, marijuana, heavy drinking, and prescription drugs*. Paper presented at the 142nd American Public Health Association meeting, New Orleans, LA.

Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2014, May). *Innovative software for prevention scientists: SAS, R, and STATA, tools for analysis and experimental design*. Technology demonstration presented at the Society for Prevention Research Annual Meeting, Washington, DC.

*Evans-Polce, R.J., Vasilenko, S.A., & **Lanza**, S.T. (2014, May). Using time-varying effect modeling to examine differences in cigarette use, regular heavy episodic drinking, and marijuana use prevalence across age by gender and race/ethnicity. In Evans-Polce, R.J. (Chair), *A New Approach to Model the Etiology of Health Risk Behavior: Estimating Change over Historical Time, Developmental Time, and Time from an Event*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, D.C.

Vasilenko, S. A., & **Lanza**, S. T. (2014, May). Using the time-varying effect model to examine changes in predictors of multiple sexual partners from adolescence through young adulthood. In Henneberger, A. K. (Chair), *Preventing risky behavior across development: Applying innovative longitudinal methods to strengthen prevention science.* Paper presented to the Society for Prevention Research, Washington, D.C.

Vasilenko, S. A., **Lanza**, S. T., & Barber, J. S. (2014, May). Patterns of condom use over time in sexual partnerships. In Evans-Polce, R. J. (Chair), *A new approach to the etiology of health risk behaviors: Estimating change over historical time, developmental time, and time from an event*. Paper presented to the Society for Prevention Research, Washington, D.C.

Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2013, December). *A Robust MPC Approach to the Design of Treatments*. Paper presented at the 52nd IEEE Conference on Decision and Control, Firenze, Italy.

*Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, June). *Short-term stability and instability in drinking patterns among college students: A latent transition analysis*. Poster session presented at the annual meeting of the Research Society on Alcoholism, Orlando, FL.

Bray, B. C., Huang, L., Yang, J., Dziak, J. J., & **Lanza**, S. T. (2013, May). *New SAS, R, and Stata software for prevention scientists: Tools for LCA, missing data, adaptive interventions, and EMA data*. Technology demonstration presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

*Butera, N. M., Bray B. C., & **Lanza**, S. T. (2013, May). Consequences of adolescent substance use latent class membership: Associations with young adult distal outcomes. Poster presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

Coffman, D. L., Bray, B. C., **Lanza**, S. T., & Dierker, L. C. (2013, May). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

*Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, May). *Do we adequately measure the alcohol-specific behavior of college students? Measurement implications from a latent class analysis*. In A. Fairlie (Chair), Extreme alcohol use: Prevalence, patterns, predictors, and consequences. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T., Bray, B. C., Coffman, D. L. (2013, May). *The causal effect of substance use latent class membership on a distal outcome*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

Lanza, S. T., Vasilenko, S., Butera, N. M., & Kugler, K. (2013, May). *A latent class approach to measuring adolescent sexual behavior*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

Cooper, B. R., & **Lanza**, S. T. (2013, April). *Using a multidimensional approach to identify for whom head start is most effective*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.

*Parr, A. D., **Lanza**, S. T., & Factor, M. (2013, April). *Examination of Leadership Personality Profiles Using Latent Class Analysis*. Poster presented at the 28th annual meeting of the Society for Industrial and Organizational Psychology, Houston, TX.

*Vasilenko, S. A., Kugler, K. C., Butera, N., & **Lanza**, S. T. (2013, April). *Patterns of Sexual Behavior in Adolescence: A Latent Class Approach*. Poster presented to the Society for Research in Child Development, Seattle, WA.

Piper, M. E., Deiches, J. F., Baker, T. B., & **Lanza**, S. T. (2013, March). Early Lapses in a Cessation Attempt: Lapse Contexts, Cessation Success and Predictors of Early Lapse. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.

*Vasilenko, S. A., **Lanza**, S. T., Liu, X., Yang, J., Li, R. & Piper, M. E. (2013, March). Time-varying predictors of smoking after quit attempt: Application of a new approach to EMA data. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.

*Vasilenko, S. A., Liu, X., **Lanza**, S. T., Piper, M. E., & Li, R. (2012, June). *Smoking cessation fatigue in relapsers and successful quitters using a time-varying effects model.* Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Coffman, D. L., Williams, J. S., Xu, S., **Lanza**, S. T., & Birch, L. L. (2012, June). *Do mothers' eating behaviors cause daughters' dieting? Drawing causal inferences from the Early Dieting in Girls study.* Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Rhoades, B. L., **& Lanza,** S. T. (2012, June). *Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects.* Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Cleveland, M. J., **Lanza,** S. T., Ray, A., Turrisi, R., & Mallett, K. (2012, June). *Using latent transition analysis to assess differential treatment effects: Results from a randomized controlled trial of first-year college students.* Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Lanza, S. T., Mathur, C., & Rhoades, B. L. (2012, June). *Mixture regression modeling to explore differential effects of risk factors for adolescent delinquency.* Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

*Butera, N., **Lanza**, S. T., & Coffman, D. L. (2012, June). *Effect of early sexual debut on adolescent delinquency latent class membership.* Poster presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Bray, B., **Lanza, S.**, & Tan, X. (2011, June). *Classify-Analyze Approaches in Latent Class Analysis: The Importance of Inclusive Modeling*. Paper presented at the Annual Meeting of Society for Prevention Research, Washington, DC.

Cleveland, M.J., **Lanza**, S. T., Ray, A., Turrisi, R., & Mallett, K. (2011, June). *First-year college students' drinking patterns: Does drinking latent class membership moderate parent- and peer-based intervention components?* Poster presented at the 34th Annual Meeting of the Research Society on Alcoholism, Atlanta, GA.

Dziak, J., Huang, L., Tan, S., **Lanza, S.**, Li, R., Collins, L., & Xu, S. (2011, June). *Software Advances from The Methodology Center at Penn State.* Technology demonstration presented at the Annual Meeting of the Society for Prevention Research in, Washington, DC.

Dziak, J., **Lanza, S**., & Li, R. (2011, June). *Sensitivity and Specificity of Information Criteria for Model Selection in Prevention and Psychology Datasets*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S., Coffman, D., Xu, S., & Almirall, D. (2011, June). *Causal Inference in Latent Class Analysis.* Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S., Tan, X., & Li, R. (2011, June). *Joint Modeling of HIV Disease Course and Survival: Effects of Alcohol, Tobacco, and Drug Use.* Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

Maldonado-Molina, M. M., Tan, X., **Lanza, S.**, & Wagenaar, A., (2011, June). *Effects of Beer Volume Tax on Alcohol-Related Mortality in 26 States from 1969 to 2004: An Application of a Varying Effects Model.* Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

*Mathur, C., Stigler, M. H., Erickson, D. J., **Lanza**, S. T., Perry, C. L., Arora, M., & Reddy, K. S. (2011, June). *Socioeconomic differentials in stages of tobacco acquisition among adolescents in India*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

*Shiyko, M., **Lanza, S.**, Tan, X., Shiffman, S., & Li, R. (2011, June). *Between-Group Differences in Temporal Dynamics of Negative Affect, Self-Confidence, and Smoking Urges in Short-Term Successful Quitters and Relapsers: Applications of the Model with Varying Effects (MOVE).* Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

Tan, X., **Lanza, S.**, & Bray, B., (2011, June). *Latent Class Analysis with a Distal Outcome: Traditional and New Approaches.* Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.

Moore, J. E., Coffman, D., & **Lanza**, S. T. (2011, March). *Drawing Causal Inferences Using Propensity Scores*. Paper presented at the Bi-Annual Meeting of the Society for Research on Child Development, Montreal, Canada.

Collins, L. M., Dziak, J. J., Huang, L., **Lanza**, S. T., Li, R., & Tan, X. (2010, June). *New development of statistical software for prevention research in The Methodology Center*. Technology demonstration presented at the Society for Prevention Research conference, Denver, CO.

Lanza, S. T., & Rhoades, B. L. (2010, June). *Subgroup analysis from a latent variable perspective: Identifying latent classes of children at risk for adverse outcomes*. Paper presented at the Society for Prevention Research conference, Denver, CO.

Rhoades, B. L. & **Lanza**, S. T. (2010, June*). Identifying subgroups of adolescents at risk for substance use: An application of latent class analysis*. Paper presented at the Society for Prevention Research conference, Denver, CO.

Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., & Vernon-Feagans, L. (2010, March). *Paternal work stress and father-infant parenting quality: A latent profile analysis*. Paper presented at the International Conference on Infant Studies, Baltimore, MD.

Dziak, J. J., Min, Y., & **Lanza**, S. T. (2009, May). *Sample size requirements in latent class analysis: The power of the bootstrap test for detecting a class*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

Maldonado, M. M., Komro, K. **Lanza**, S. T., Altman, D., & Prado, G. (2009, May). *Ethnic differences in stages of recent drug use among inner-city early adolescents*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

*Min, Y., Dziak, J. J., & **Lanza**, S. T. (2009, May). *The effects of sample size and model characteristics on the accuracy of parameter and standard error estimation in latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

*Rhoades, B. L., **Lanza**, S. T., & Greenberg, M. T. (2009, May). *Latent classes of demographic and familial risk for early executive function deficits*. Paper presented at the Society for Prevention Research conference, Washington, D.C.

Lanza, S. T. (2008, May). *Using latent transition analysis to model transitions in dating and sexual risk behavior*. Paper presented at the Society for Prevention Research conference, San Francisco, CA.

Lemmon, D., Bray, B. C., **Lanza**, S. T., & Dziak, J. J. (2008, May). *New developments in SAS procedures for prevention research*. Technology demonstration presented at the Society for Prevention Research conference, San Francisco, CA.

Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2007, November). *Paternal work experiences and father-infant interactions: a latent class analysis*. Paper presented at the National Council on Family Relations conference, Pittsburgh, PA.

Bray, B. C., **Lanza**, S. T., & Collins, L. M. (2007, May). *Modeling the longitudinal relation between adolescent drinking and smoking behavior*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

Chung, H., **Lanza**, S. T., & Loken, E. (2007, May). *Latent transition analysis: Inference and estimation*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

*Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, May). *Identifying early risk profiles for behavior and academic problems in late childhood: An application of latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

Maldonado, M. M., Prado, G., **Lanza**, S. T., Collins, L. M., & Canino, G. (2007, May). *Hispanic drug use: Patterns of substance use involvement among adolescents*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

Root, T. L., Collins, L. M., **Lanza**, S. T., Lemmon, D., & Schafer, J. L. (2007, May). *Latent class analysis for small samples*. Poster presented at the Society for Prevention Science conference, Washington, D.C.

Jung, H., Schafer, J. L., Ridenour, T., & **Lanza**, S. T. (2007, May). *Using latent class variables as predictors*. Poster presented at the Society for Prevention Research conference, Washington, D.C.

*Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, March). *Profiles of early risk for externalizing problems and social competence in late childhood*. Poster presented at the Society for Research in Child Development conference, Boston, MA.

Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., and The Family Life Project Key Investigators (2007, March). *Paternal work characteristics and the quality of father-infant interactions with low-income, rural families*. Paper presented at the Society for Research in Child Development conference, Boston, MA.

Dorius, C. J., Crouter, A. C., **Lanza**, S. T., & Vernon-Feagans, L. (2006, November). *Maternal stimulation in low-income rural families: Does self-direction at work matter?* Paper presented at the National Council on Family Relations conference, Minneapolis, MN.

Lemmon, D., & **Lanza**, S. T. (2006, June). *PROC LCA: A SAS procedure for latent class analysis*. Technology demonstration presented at the Society for Prevention Research conference, San Antonio, TX.

Lanza, S. T., Foster, E. M. (2005, June). *Using a behavioral problems checklist to assess risk of substance use: An IRT analysis of differential item functioning across gender*. Poster presented at the Society for Prevention Research conference, Washington, DC.

Tanner, J. L., **Lanza**, S. T., Reinherz, H. Z., & Leis, J. A. (2005, February). *Emerging adulthood: An era of well-being or risk for poor mental health?* Paper presented at the Conference on Emerging Adulthood, Miami, FL.

Lanza, S. T., & Collins, L. M. (2004, July). *Latent stage sequence analysis*. Paper presented at the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.

Lanza, S. T., Donny, E. C., & Balster, R. L. (2004, June). *The increasing regularity of rat nicotine self-administration during acquisition*. Poster presented at the College on Problems of Drug Dependence, San Juan, PR.

Lanza, S. T., Donny, E. C., Collins, L. M., & Balster, R. L. (2003, June). *Analyzing the acquisition of drug self-administration using growth curve models*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.

Donny, E. C., **Lanza**, S. T., Balster, R. L., Collins, L. M., Caggiula, A. R., & Rowell, P. (2003, June). *Using growth models to relate acquisition of nicotine self-administration to break point and nicotinic receptor binding*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.

Lanza, S. T. (2003, April). *Exploring gender differences and change over time in subtypes of adolescent depression using latent class and latent transition analysis*. Paper presented at the Society for Research on Child Development, Tampa, FL.

Lanza, S. T., Collins, L. M., & Schafer, J. L. (2001, June). *Model fit for incomplete categorical data: A substance use example*. Poster presented at the Society for Prevention Research conference, Washington DC.

Feinberg, M., McHale, S., **Lanza**, S., & Crouter, A. C. (2001, April). *Sibling and parent relationship trajectories: The search for nonshared environmental processes in the family*. Paper presented at the Society for Research on Child Development conference, Minneapolis, MN.

Collins, L.M., Schafer, J.L., **Lanza**, S.T., & Flaherty, B.P. (2001, January). *Latent transition analysis: Some new results using data augmentation*. Paper presented at the Quantitative Methods and Measurement Colloquium Series, University of California, Santa Barbara.

Hyatt (Lanza), S. L., & Loken, E. (2000, August). *Substance use risk types as latent classes*. Paper presented at the Add Health User's Workshop, Bethesda, MD.

Collins, L.M., Schafer, J.L., Hyatt (Lanza), S.L., & Flaherty, B.P. (2000, July). *A demonstration of WinLTA*. Paper presented at the biennial meetings of the Society for Multivariate Applications in the Behavioral Sciences, London, England.

Hyatt (Lanza), S. L., & Loken, E. (2000, June). *Adolescent substance use risk profiles as latent classes*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.

Loken, E., Hyatt (Lanza), S. L., & Porfeli, E. (2000, June). *Can coaching help students qualify as gifted?* Paper presented at the American Psychological Society conference, Miami, FL.

Maldonado, M. M., Hyatt (Lanza), S. L., & Collins, L. M. (2000, June). *Using latent transition analysis to test the gateway hypothesis of drug use onset in the Add Health data*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.

Collins, L.M., Hyatt (Lanza), S.L., & Flaherty, B.P. (1999, October). *Latent transition analysis: A method for estimating and testing stage-sequential models in longitudinal contingency tables*. Presented at Measuring Change in Complex Social Systems: Best Practices and State-of-the-Art Developments for Measuring Change in Organizations, College Park, MD.

Collins, L. M., Schafer, J. L., Hyatt (Lanza), S. L., & Flaherty, B. P. (1999, July). *Using data augmentation in latent class models for longitudinal data: Estimation, standard errors and hypothesis tests involving combinations of parameters*. Paper presented at the European Meetings of the Psychometric Society, Lueneberg, Germany.

Hyatt (Lanza), S. L., & Collins, L. M. (1999, July). *Pubertal timing and the stages of drug use*. Paper presented at the Add Health User's Workshop, Bethesda, MD.

Hyatt (Lanza), S. L., & Collins, L. M. (1999, June). *Pubertal timing and the stages of drug use*. Poster presented at the Society for Prevention Research conference, New Orleans, LA.

Collins, L. M., Hyatt (Lanza), S. L., Flaherty, B. P., Schafer, J. L., & Hames, K. (1999, June). *A demonstration of WinLTA 2.0*. Presented at the Annual Meetings of the Society for Prevention Research, New Orleans, LA.

Hyatt (Lanza), S. L., Collins, L. M., & Schafer, J. L. (1998, October). *Gun availability and adolescent substance use: Using multiple imputation to get standard errors*. Poster presented at the New Methods for the Analysis of Change conference, University Park, PA.

Hyatt (Lanza), S. L., Collins, L. M., Schafer, J., & Graham, J. W. (1998, June). *Using data augmentation to get standard errors of parameter estimates in Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Park City, UT.

Hyatt (Lanza), S. L., Jacobs, J., Tanner, J. L., & Eccles, J. (1998, April). *Explaining the decrease in adolescents' math and sports ability and interest: An example using Hierarchical Linear Modeling*. Poster presented at the Academic Educational Research Association conference, San Diego, CA.

Collins, L. M., Hyatt (Lanza), S. L., & Graham, J. W. (1998, February). *Perceived parental permissiveness as a risk factor for substance use onset: An example of Latent Transition Analysis*. Presented at the Institute for Social Research, University of Michigan, Ann Arbor, MI. Also presented February, 1998 at the Population Research Institute, Pennsylvania State University.

Hyatt (Lanza), S. L., & Collins, L. M. (1998, February). *Substance use trajectories for adolescents with permissive parents: An example using Latent Transition Analysis*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.

Jacobs, J. E. & Hyatt (Lanza), S. L. (1998, February). *My parents are too strict: Relations between parenting practices and adolescent decision making*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.

Collins, L. M., Hyatt (Lanza), S. L., & Graham, J. W. (1997, June). *LTA as a way of testing models of stage-sequential development in longitudinal data*. Presented at Practical Approaches to Longitudinal and Multi-Group Data, Max Plank Institute for Human Development, Berlin, Germany.

Hyatt (Lanza), S. L., & Collins, L. M. (1997, May). *Modeling advanced substance use using Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Baltimore, MD.

Select Recent Local Presentations

Lanza, S. T. (2025, April). *Latent Class Modeling in the Context of Intensive Longitudinal Data: Estimation Considerations*. Paper presented at the QuantDev seminar series, Pennsylvania State University.

*Van Doren, N., Linden-Carmichael, A. N., Bray, B.C., Lanza, S. T. (February 2020). *An application of Latent Class Analysis to daily diary data: Examining daily patterns of substance use in young adults.* Presented at The Methodology Center, Pennsylvania State University.

*Braymiller, J. L., & Lanza, S. T. (2018, March). *Examining patterns of nicotine use in 18-24 year olds: Implications for prevention and policy*. Presented at the Penn State Graduate Research Exhibition, Pennsylvania State University.

Lanza, S. T. (2017, September). *Continuing to advance high-impact prevention science: Setting the course in a changing landscape.* Presented at the Edna Bennett Pierce Prevention Research Center, Pennsylvania State University.

Dziak, J. J., Bray, B. C., Lanza, S. T. (2017, May). *Performance of multiple imputation for missing data in latent class analysis*. Poster presented at the Rao Prize Conference, Department of Statistics, Pennsylvania State University.

Lanza, S. T. (2017, April). *Finite mixture modeling to understand within-person affect variability.* Presented at the Department of Statistics, Pennsylvania State University.

Bray, B. C., Dziak, J. J., & Lanza, S. T. (2015, March). *The good, the bad, and the ugly: What we know today about latent class analysis with distal outcomes*. Poster presented at the College of Health and Human Development Annual Research Forum, Pennsylvania State University.

Teaching and Mentoring Experience

Courses

New graduate courses developed: Introduction to Latent Class and Latent Transition Analysis; New Methods for Analysis of Intensive Longitudinal Data; Introduction to Time-Varying Effect Modeling

Graduate course redesigned (Spring 2025): Advanced Biobehavioral Research Strategies

Spring 2025 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
(6 registered students)
The Pennsylvania State University, Department of Biobehavioral Health
SEEQ (scale of 1 to 5): Overall structure of the course promoted meaningful learning experience: 5 (mode), 5 (median); Instructor created a welcoming and inclusive environment: 5 (mode), 5 (median)

Fall 2023 Instructor for undergraduate course: *Research Strategies for Studying Biobehavioral Health*
(75 registered students)
The Pennsylvania State University, Department of Biobehavioral Health
SEEQ (scale of 1 to 5): Overall structure of the course promoted meaningful learning experience: 5 (mode), 5 (median); Instructor created a welcoming and inclusive environment: 5 (mode), 5 (median)

Fall 2022 Instructor for undergraduate course: *Research Strategies for Studying Biobehavioral Health*
(85 registered students)
The Pennsylvania State University, Department of Biobehavioral Health
SRTE (scale of 1 to 7): Overall quality of instructor: 7.0 (mode), 5.5 (median); Overall quality of course: Bimodal, 5.0 (median)

Spring 2018 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
The Pennsylvania State University, Department of Biobehavioral Health
SRTE (scale of 1 to 7): Overall quality of instructor: 7.00, Overall quality of course: 7.00

Spring 2017 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
The Pennsylvania State University, Department of Biobehavioral Health
SRTE (scale of 1 to 7): Overall quality of instructor: 6.67, Overall quality of course: 6.67

Spring 2016 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
The Pennsylvania State University, Department of Biobehavioral Health
SRTE (scale of 1 to 7): Overall quality of instructor: 6.71, Overall quality of course: 6.83

Spring 2015 Co-Instructor for graduate course: *Introduction to Time-Varying Effect Modeling*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 7.00, Overall quality of course: 7.00

Fall 2013 Co-Instructor for graduate course: *New Methods for Analysis of Intensive Longitudinal Data*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 6.75, Overall quality of course: 6.25

Spring 2011 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 6.17, Overall quality of course: 5.83

Spring 2009 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies

Spring 2007 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies

Spring 2001 Teaching assistant for undergraduate course: *Empirical Inquiry in Human Development*
The Pennsylvania State University, Department of Human Development and Family Studies

Fall 2000 Teaching assistant for graduate course: *Strategies for Data Analysis in Developmental Research*
The Pennsylvania State University, Department of Human Development and Family Studies

Fall 1998, Fall 2001 Teaching assistant for graduate course: *Measurement in Human Development*
The Pennsylvania State University, Department of Human Development and Family Studies

Doctoral Advising (Dissertation Chair or Committee Member)

2025- Chia-li Yu
The Pennsylvania State University, Department of Psychology
Chair: Jenae Neiderhiser

2025- Kelly Ngigi
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Gregory Fosco

2024- Maddie Politte-Corn
The Pennsylvania State University, Department of Psychology
Chair: Kristin Buss

2024- Walter Dyer
The Pennsylvania State University, Department of Psychology
Chair: Jose Soto

2024- Christine Doroshenko
The Pennsylvania State University, Department of Public Health Sciences
Chair: Douglas Leslie

2024- Yuqi Shen
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Orfeu Buxton

2023- Danny Wang
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza

2023- Qiaofeng Ye
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Idan Shalev

2024-2024 Evaniya Shakya
Title: *Effectiveness of Microfinance, Nutrition Education, and Couples Strengthening on Maternal and Child Diets in Rural Niger: Evidence from a Program Evaluation Project*
The Pennsylvania State University, Department of Nutrition
Chair: Muzi Na

2019-2024 Samuel Stull
Title: *Ambulatory Assessment to Study Nondrug Reward in Recovery from Opioid Use Disorder*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza

2021-2024 Carlie Sloan
Title: *Parents' Engagement with a Novel mHealth Intervention for Strengthening Families: A Feasibility Study*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Gregory Fosco

2020-2023 David Reichenberger
Title: *Evaluating the Consequences of Evening Light-Emitting Device Use on Sleep Health*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Anne-Marie Chang

2020-2022 Kyler Knapp
Title: *Daily Affect Dynamics Among Residential Opioid Use Disorder Treatment and Nonclinical Comparison Groups*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Hobart (Bo) Cleveland

2020-2022 Kristin Davis
Title: *An Examination of Changes in Diet Quality, Measures of Inflammation, Depressive Symptoms, and Metabolic Syndrome Severity across the First Semester in College*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Kyle Murdoch

2019-2021 Devin McCauley
Title: *Interparental Conflict and Threat Appraisals During Adolescence: Identifying Sensitive Periods of Risk for Psychological Maladjustment, Substance Use, and Diminished School Adjustment*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Gregory Fosco

2018-2020 Bradley Trager
Title: *Development and Validation of the Parental Approval Toward Alcohol Use Questionnaire: An In-depth Examination of Perceived Parental Approval in Underage Adults*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Robert Turrisi

2017-2020 Dusti Jones

Title: *Does Arousal Matter for Positive Affect? An Exploration of High and Low Arousal Positive Affect in Everyday Life and Associations with Health Behaviors and Symptomology*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Jennifer Graham-Engeland

2016-2019 Ki (Kay) Eun Shin
Title: *Dynamics of Symptom Relations in Major Depressive Disorder and Generalized Anxiety Disorder: Time-Series Network Analysis Approach*
The Pennsylvania State University, Department of Psychology
Chair: Michelle Newman
(Director of minor project)

2015-2019 Jessica Braymiller
Title: *Epidemiology of Nicotine Use Among Adolescents and Young Adults in the United States: Findings from the PATH Study*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza

2017-2019 Hio Wa (Grace) Mak
Title: *The Developmental Significance of Parents and Peers for Individual Adjustment Across Adolescence*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Gregory Fosco

2016-2019 Andrea Stroup
Title: *An Introduction to the Electronic Waterpipe*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephen Branstetter

2016-2019 Briana Sprague
Title: *Associations Between Physical and Cognitive Function in Healthy Older Adults*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Lesley Ross

2014-2018 Sunghye (Jen) Cho
Title: *Parental Anxiety as an Environmental Context for Anxiety Symptom Development in Childhood*
The Pennsylvania State University, Department of Psychology
Chairs: Pamela Cole and Kristen Buss

2017-2018 Justin Petrovich
Title: *Functional Principal Component Analysis and Sparse Functional Regression*
The Pennsylvania State University, Department of Statistics
Chair: Matthew Reimherr

2015-2017 Danica Slavish
Title: *The Role of Neuroticism in Exposure and Reactivity to Daily Experiences and Nightly Sleep Quality*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Jennifer Graham-Engeland

2015-2016 Phylicia Bediako
Title: *Youth HIV Risk in South Africa: The Role of Abstinence Motives, Substance Use, and Intervention Programs*
The Pennsylvania State University, Department of Health Policy and Administration
Chair: Rhonda BeLue

2013-2015 Korkut Bekiroglu
Title: *From Data to Interventions: Using System Identification and Robust Control Algorithms to Design Effective Treatments*

The Pennsylvania State University, Department of Electrical Engineering
Chair: Constantino Lagoa

2013-2014 Jochebed Gayles
Title: *An Integrated Multidimensional Model of Individual Well-Being in Middle Adolescence*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Mark Greenberg

2013-2014 Hanyu Yang
Title: *Statistical Models for Scalar Response with Longitudinal Covariates*
The Pennsylvania State University, Department of Statistics
Chair: Runze Li

2013-2014 Xiaoyu Liu
Title: *Joint Modeling of Longitudinal and Survival Data: New Models, Computing Techniques, and Applications*
The Pennsylvania State University, Department of Statistics
Chair: Runze Li

2011-2014 Xiaotian Zhu
Title: *Non-Parametric Finite Multivariate Mixture Models with Applications*
The Pennsylvania State University, Department of Statistics
Chair: David Hunter

2011-2013 Alissa Parr
Title: *Proactive Followers with Leaders in Mind: Unraveling the Mystery Behind this Oxymoron*
The Pennsylvania State University, Department of Psychology
Chair: Sam Hunter
(Director of minor project)

2009-2013 Jeffrey Woo
Title: *Optimization and Statistical Estimation for the Post Randomization Method*
The Pennsylvania State University, Department of Statistics
Chair: Aleksandra Slavković

2011-2012 Esra Kurum
Title: *Joint Modeling of Longitudinal Binary and Continuous Responses: New Models, Statistical Procedures, and Applications*
The Pennsylvania State University, Department of Statistics
Chair: Runze Li

2009-2011 Patricia Grabarek
Title: *Personality Typologies as Predictors of Effective Performance in Customer Service Jobs*
The Pennsylvania State University, Department of Industrial/Organizational Psychology
Chair: Alicia Grandey
(Director of minor project)

2007-2009 Melissa Tibbits
Title: *Engagement Within and Across Leisure Activities in Adolescence: Implications for Substance Use and Sexual Activity*
The Pennsylvania State University, Department of Human Development and Family Studies
Chairs: Ed Smith and Linda Caldwell

2006-2009 Brittany Rhoades
Title: *Demographic and Familial Risks for Early Executive Function Development: Contributions of a Person-Centered Perspective*
The Pennsylvania State University, Department of Human Development and Family Studies
Chairs: Mark Greenberg and Stephanie Lanza

2005-2008 Karen Auerbach
Title: *Alcohol and Marijuana Use Across the Transition to Marriage: Group Differences and Psychosocial Factors*
The Pennsylvania State University, Department of Human Development and Family Studies
Chairs: Jennifer Maggs and D. Wayne Osgood

2005-2007 Bethany Bray
Title: *Examining Gambling and Substance Use: Applications of Advanced Latent Class Modeling Techniques for Cross-Sectional and Longitudinal Data*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Linda Collins

2003-2005 Mildred Maldonado-Molina
Title: *The Gateway Hypothesis of Substance Use: An Operational Definition, Alternative Progression Patterns, and Methodological Challenges*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Linda Collins

PhD Qualifying Committee Member, Biobehavioral Health

2024-2025 Abi Dadzie
2022-2023 Danny Wang (chair)
2022-2023 Carlos Novoa
2022-2023 Qiaofeng Ye
2020-2021 Fernanda Lugo
2019-2020 Samuel Stull (chair)
2018-2020 Rodney Jones
2018 Sarah Gioia
2018 Laura Mayer
2016-2017 Emily Jones
2016-2017 Jessica Braymiller (chair)
2016-2017 Bradley Hastings
2016 Frank Materia

Methodology Mentor for NIH/NIDA Prevention and Methodology Training Program (T32-DA017629)

NIH Postdoctoral Fellows
2024- Sara Miller, postdoctoral fellow
2022-2024 Kristin Perry, postdoctoral fellow
2022-2023 Danny Rahal, postdoctoral fellow
2019-2021 Renee Cloutier, postdoctoral fellow
2018-2020 Hannah Allen, postdoctoral fellow
2013-2016 Rebecca Evans-Polce, postdoctoral fellow
2014-2015 Melissa Boone Brown, postdoctoral fellow
2014-2015 Michael Russell, postdoctoral fellow
2012-2014 Annie Fairlie, postdoctoral fellow
2011-2013 Sara Vasilenko, postdoctoral fellow
2011-2012 Keri Jowers, postdoctoral fellow
2009-2011 Suellen Hopfer, postdoctoral fellow

NIH Predoctoral Fellows
2025- Yuqi Shen, predoctoral fellow
2023-2025 Danny Wang, predoctoral fellow
2022-2024 Holly Pham, predoctoral fellow
2021-2023 Carlie Sloan, predoctoral fellow

2019-2021 Devin McCauley, predoctoral fellow
2018-2020 Anna Hochgraf, predoctoral fellow
2017-2019 Hio Wa (Grace) Mak, predoctoral fellow
2016-2018 Jessica Braymiller, predoctoral fellow
2016-2018 Lindsey Potter, predoctoral fellow
2014-2016 Tomorrow Wilson, predoctoral fellow
2014-2016 Phylicia Bediako, predoctoral fellow
2008-2010 Caitlin Abar, predoctoral fellow
2007-2009 Melissa Tibbits, predoctoral fellow
2005-2007 Bethany Bray, predoctoral fellow
2005-2007 Brittany Rhoades, predoctoral fellow

Other mentoring

Yuqi Shen, Graduate Research Assistant, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor (9/1/24-6/30/25)

Cara Rice, Ph.D., Postdoctoral Researcher, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor (9/1/15-8/31/17)

Korkut Bekiroglu, Ph.D., Postdoctoral Researcher, The Methodology Center, The Pennsylvania State University
Role: Primary mentor (7/1/15-12/31/16)

Sarah Dermody, Graduate Fellow, Department of Psychology, University of Pittsburgh
Role: F31 mentor (9/1/13-8/31/15)

Maggie Holland, Ph.D., Assistant Professor at School of Nursing, University of Rochester
Role: KL2 mentor (7/1/12-6/30/15)

Micere Keels, Ph.D., Assistant Professor, Dept. of Comparative Human Development, University of Chicago
Role: Methodological Mentor, W. T. Grant Scholars Career Development Award (2012-2017)

Emily Tanner-Smith, Ph.D., Research Associate, Peabody Research Institute, Vanderbilt University
Role: Consultant on Institute of Education Sciences grant (5/1/12-4/30/14)

Jieting Zhang, Graduate student visiting Methodology Center
Role: Acting dissertation advisor (9/1/12-12/31/13)

Mentored Awards/Grants

Harold Lee, Assistant Professor, Biobehavioral Health, The Pennsylvania State University
Role: Mentor, SSRI Early Career Fellowship (2024-2025)

Maddie Politte-Corn, Graduate Student, Psychology, The Pennsylvania State University
Role: Mentor, CTSI TL1 Fellowship (2023-2025)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University
Role: F31 Primary mentor, NIH/NIDA F31DA057837 (8/1/23-6/30/24)

Role: Primary mentor, College of Health and Human Development Limited Endowment Funds for Dissertation Research (2023-2024)

Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2022-2023)

Role: Primary mentor, Edward R. and Helen Skade Hintz Graduate Education Enhancement Fellowship Award (2022-2023)

Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2021-2022)

Role: NSF graduate fellowship primary mentor (8/1/20-7/31/23)

Role: Primary mentor, Edward R. and Helen Skade Hintz Graduate Education Enhancement Fellowship Award (2020-2021)

Danny Wang, Graduate Student, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor, Graham Fellowship Award (2022-2023)

Anna Hochgraf, Graduate Fellow, Department of Human Development and Family Studies, The Pennsylvania State University
Role: F31 primary mentor NIH/NIDA (8/1/20-7/31/22)

Idan Shalev, Assistant Professor, Biobehavioral Health, The Pennsylvania State University
Role: Mentor, SSRI Early Career Fellowship (2019-2020)

Ashley Linden-Carmichael, Ph.D., Assistant Research Professor in Health and Human Development, The Pennsylvania State University
Role: K01 AA026854 primary mentor NIH/NIAAA (5/1/19-present)

Scherezade Mama, Ph.D., Assistant Professor in Kinesiology, The Pennsylvania State University
Role: K07 CA222335 mentor NIH/NCI (9/1/18-7/31/24)

Cara Rice, Ph.D., KL2 Scholar, The Pennsylvania State University
Role: KL2 mentor, Penn State Clinical and Translational Science Institute (1/1/18-9/1/19)

Jessica Braymiller, Graduate Student, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2018-2019)

Professional Service

Service to NIH

NIH Content Expert, Pathways to Prevention (P2P) workshop: *Strategies for Linking Youth Exposure to Preventive Interventions for Future Suicidal Behavior and Associated Morbidity and Mortality Outcomes* (9/2015).

NIH Grant Review

- "Collaborative Partnership between Research Centers in Minority Institutions (RCMI) and Alcohol Research Centers" U54 (RFA AA21-015) Review Council (5/2022)
- "Interventions to Prevent Electronic Nicotine Delivery Systems (ENDS) Use Among Adolescents" Review Council (2/2020)
- "Addressing Suicide Research Gaps" RFA Review Council (2/2018)
- NIH Research Conference Grants (Parent R13) Review Council (12/2017)
- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2016)
- AIDS Research Review Committee (AIDS-RRC) Review Council (11/2014)
- "Seek, Test, Treat, and Retain Data Harmonization Coordinating Center" U01 (ZDA1 EXL T 13) Review Council (12/2013)
- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2011)
- "SBIR Phase I Project – Improving Measures of Addiction Risk" Review Council (1/2011)
- Behavioral Genetics and Epidemiology (BGES) Study Section (6/2010)
- Cutting-Edge Basic Research Awards (CEBRA) Review Council (1/2008)
- Community Influences on Health Behavior (CIHB) Study Section (10/2005, 6/2006, 2/2007)

Conferences Organized

2021 Consortium to Combat Substance Abuse Annual Meeting, University Park, PA, May 3, 2021
Addressing Substance Use: Cross-Systems Solutions (held virtually)

2019 Edna Bennett Pierce Prevention Research Center, University Park, PA, October 14, 2019

A Celebration of 20 Years of Prevention Research

2019 Consortium to Combat Substance Abuse Inaugural Meeting, University Park, PA, April 29, 2019
Envisioning a Future Free from Addiction: Research, Programs, and Practice to Prevent Substance Abuse

2017 Summer Institute on Innovative Methods, University Park, PA, June 29-30, 2017
Statistical Power Analysis for Intensive Longitudinal Studies
(presenters: Drs. Niall Bolger and Jean-Phillippe Laurenceau)

2016 Summer Institute on Innovative Methods, University Park, PA, July 21-22, 2016
Ecological Momentary Assessment (EMA): Investigating Biopsychosocial Processes in Context (presenters: Drs. Joshua Smyth, Kristin Heron, and Michael Russell)

2015 Summer Institute on Innovative Methods, Rockville, MD, June 11-12, 2015
Introduction to Time-Varying Effect Models (presenters: Dr. Stephanie Lanza and Dr. Sara Vasilenko)

2014 Summer Institute on Innovative Methods, Ann Arbor, MI, June 19-20, 2014
Experimental Design and Analysis Methods for Developing Adaptive Interventions: Getting SMART (presenters: Dr. Daniel Almirall and Dr. Inbal Nahum-Shani)

2013 The Future of HIV Prevention and Treatment: Integrating Innovative Methods with Intervention Science, Bethesda, MD, September 12-13, 2013 (primary presenters: Dr. Seth Kalichman, Dr. Rick Altice, Dr. Linda Collins, Dr. Daniel Almirall); co-funded by NIDA, OAR, OBSSR

2013 Summer Institute on Innovative Methods, The Pennsylvania State University, June 27-28, 2013
Introduction to Latent Class Analysis (presenters: Dr. Stephanie Lanza and Dr. Bethany Bray)

2012 Summer Institute on Innovative Methods, The Pennsylvania State University, June 20-21, 2012
Causal Inference using Propensity Scores (presenter: Dr. Donna Coffman)

2012 Preconference Workshop for Society for Research on Nicotine and Tobacco, Houston, TX, March 13, 2012 (Drs. Stephanie Lanza and Megan Piper, Co-Organizers)
New Methods for Advancing Research on Tobacco Dependence

2011 Summer Institute on Innovative Methods, Rockville, MD, September 8-9, 2011
The Multiphase Optimization Strategy (presenter: Dr. Linda Collins)

2010 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 7-9, 2010
Analysis of Longitudinal Dyadic Data (presenters: Dr. Niall Bolger, Dr. Jean-Philippe Laurenceau)

2009 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 29-July 1, 2009
Latent Class and Latent Transition Analysis (presenters: Dr. Linda Collins, Dr. Stephanie Lanza)

2008 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 2-4, 2008
Statistical Mediation Analysis (presenter: Dr. David Mackinnon)

2007 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 4-6, 2007
Mixed Models for Longitudinal Continuous and Dichotomous Data (presenter: Dr. Donald Hedeker)
Practical Tools for Causal Inference (presenter: Dr. Joseph Schafer)

2006 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 12-14, 2006
Causal Inference (presenter: Dr. Christopher Winship)

Service to the Profession

2025- Member, *Journal of Studies on Alcohol and Drugs* Task Force on Open Science Policy and Practice

2024- President-Elect, *Society for Ambulatory Assessment*

2024- Member, External Advisory Board for the University of Illinois at Chicago Institute for Research on Addictions

2023- Senior Editor, *Journal of Studies on Alcohol and Drugs*

2024	Conducted Book Review for Statistics section at Cambridge University Press
2023	Abstract Reviewer, Society for Research on Adolescence 2024 annual meeting
2021	External Advisor on establishment of Prevention Science Graduate Program, Rutgers, The State University of New Jersey
2020-present	Advisory Board Member, NIDA P50 "Parenting in the Context of Opioid Use" (Phil Fisher, Leslie Leve, Co-PIs)
2020-2021	Conference Planning Committee Member, Society for Prevention Research 2021 annual meeting
2020	External Reviewer, NIDA P30 "Center for Technology and Behavioral Health" (Lisa Marsch, PI)
2020	External Reviewer, Royal Netherlands Academy of Arts and Sciences
2019-2020	Conference Planning Committee Member, Society for Prevention Research 2020 annual meeting
2017-2020	Co-chair, Methods for Leveraging Big Data in Prevention Science: Mapping Advances in Prevention Science (MAPS) V Task Force, Society for Prevention Research
2015-2018	Member, Society for Prevention Research board of directors
2015-2018	Chair, Nominations Committee, Society for Prevention Research
2016	Program Committee Member, International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)
2015-2017	Member, Society for Prevention Research awards committee
2012-2016	Associate Editor, *Prevention Science*
2014-2015	Planning Committee Member, Society for Ambulatory Assessments annual meeting
2015	Reviewer, Society for Prevention Science Early Career Preventionist Network (ECPN) poster contest
2013	Cambridge University Press [book proposal]
2010-2012	Editorial Board Member, *Prevention Science*
2005	Member, Methodology Planning Subcommittee for Society of Prevention Research annual meeting
2002-present	Ad-hoc Reviewer: *Addiction; Alcoholism: Clinical and Experimental Research; Addictive Behaviors; Addictive Behaviors Reports; American Journal of Public Health; American Psychologist; Annals of Behavioral Medicine; Archives of Pediatrics & Adolescent Medicine; Criminology; Development and Psychopathology; Developmental Psychology; Drug and Alcohol Dependence; Journal of Adolescence; Journal of Adolescent Health; Journal of the Royal Statistical Society: Series A, Journal of Studies on Alcohol and Drugs; Journal of Medical Internet Research; Multivariate Behavioral Research; Nicotine and Tobacco Research; Organizational Research Methods; Prevention Science; Preventive Medicine; Psychological Methods; Psychology of Addictive Behaviors; Statistics and Medicine; Structural Equation Modeling*

Service to The Pennsylvania State University

2025	Search Committee Member, Penn State Conflict of Interest Director
2024-present	Member, BBH Promotion and Tenure Committee
2024	Search Committee Member, BBH Graduate Academic Program Coordinator
2023-2024	Search Committee Member, Assistant Professor of BBH (Penn State Cancer Institute co-fund)
2023-2024	Member, BBH Advisory Committee
2023-2024	Chair, BBH Promotion and Tenure Committee
2023-2024	Search Committee Member, Director of SSRI Consortium on Substance Use and Addiction
2023-2024	SSRI Consortium on Substance Use and Addiction Advisory Board
2023	Review Committee Member, Blavatnik National Awards – University downselect for Life Sciences
2022-2023	BBH Promotion and Tenure Committee Member
2022	Search Committee Member, Penn State Vice President for Outreach

2022	Search Committee Member, College of Health and Human Development, Director, Information Systems and Services
2022	Reviewer, Clinical and Translational Science Institute KL2 Early Career grant program
2021-2023	Executive Committee Member, Consortium on Substance Use and Addiction (CSUA)
2021	Search Committee Member, College of Health and Human Development Assistant Dean for Operations
2021	Search Committee Member, College of Liberal Arts, Director, Criminal Justice Research Center
2020-2022	Member, Group to Reduce Racial Inequities in Prevention (GRRIP)
2019-2021	Social Science Research Institute Steering Committee
2019-2020	University Health Services Research Hub Working Group
2019-2020	WPSU Opioid Project Advisory Panel
2019-2021	Advisory Board Member, Criminal Justice Research Center
2019-2020	BBH Search Committee Member, Endowed Professor of Caring and Compassion
2019-2020	Department of Health Policy and Administration Promotion and Tenure Committee
2017-2020	BBH Graduate Program Committee
2019-2021	SSRI Evidence to Impact Consortium Advisory Board
2017-2019	BBH Promotion and Tenure Committee Member
2018-2019	BBH Search Committee Member, SSRI Co-Hire for Consortium to Combat Substance Abuse
2018-2019	HDFS Search Committee Member, Professor and Bennett Chair
2018	PSU Strategic Planning Task Force to Address the Opioid Epidemic
2016-2017	Chair, Health and Human Development Task Force for formation of new research center, "Center for Individualized Health Research and Intervention"
2016-2017	Chair, Search Committee for BBH Interdisciplinary Methodologist
2016-2017	Co-chair, RCCI Communications and Onboarding Working Group
2016	Search Committee Member, Director of the Institute for Cyberscience (ICS)
2016	Chair, Health and Human Development Center Promotion Committee
2016	Panel Member, Graduate Student Alumni Society Professional Development Workshop
2015-	SSRI/Population Research Institute's Computational and Spatial Analysis Core, Internal Advisory Board
2015-2016	Co-chair, RCCI Data Governance Working Group
2015-2017	Advisory Council Member, Research Computing and Cyberinfrastructure (RCCI) Governance
2015-2016	Member, BBH Research Committee
2015	Search Committee Member, ISS Helpdesk Supervisor
2015	Reviewer, Clinical and Translational Science Institute's Novel Approaches to Big Data RFA
2013-2014	Planning Council, College of Health and Human Development Strategic Planning
2008-2014	Member and HHD Representative, Graduate Student Alumni Society (GSAS) Board of Directors
2013, 2014	Search Committee Member, Director of the Edna Bennett Pierce Prevention Research Center
2010-2014	Presented Workshop: Lanza, S. T. *Landing that academic job: The art of giving a job talk* • October, 2014 at The Methodology Center seminar series, University Park, PA. • November, 2011 at the Graduate Student Association seminar series, University Park, PA • January, 2011 at The Methodology Center seminar series, University Park, PA. • March, 2011 at the Penn State Department of Adult Education, University Park, PA • November, 2010 at the Penn State Graduate Student Alumni Society Soft Skills Workshop Series, University Park, PA.
2011-2014	Member, The Methodology Center Green Team
2011	Search Committee Member, supervising teacher at Bennett Family Center

2010, 2011 Panel Member, *Giving Poster Presentations*. Workshop presented for the Penn State Graduate Student Association

2005-2009 Editor, The Methodology Center Perspective newsletter

Continuing Education

2025 Essentials of Online Teaching, The Pennsylvania State University (certification received)
2021 Graduate, Leadership Program: Changing the Future for Women at Penn State
2014 Project Management: Skills for Success. Learning Tree International (certification received)