

EMILY L. PAKHTIGIAN

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ACADEMIC EMPLOYMENT

2020– Assistant Professor of Public Policy, Pennsylvania State University

EDUCATION

2020 Ph.D. in Public Policy with Economics Concentration, Duke University
M.A. in Economics, Duke University
Certificate in College Teaching, Duke University

2015 B.A. in Economics with honors, minor in Mathematics, Moravian College
B.A. in Political Science, Moravian College

RESEARCH INTERESTS

Environmental Economics ♦ Development Economics ♦ Public Health

PAPERS AND PUBLICATIONS

Peer-Reviewed Published Work

- 2019 **Pakhtigian, E. L.**, Jeuland, M., Dhaubanjari, S., and Pandey, V. P. (2019). Balancing intersectoral demands in basin-scale planning: The case of Nepal’s western river basins. *Water Resources and Economics*, 100152. doi: <https://doi.org/10.1016/j.wre.2019.100152>.
- Pakhtigian, E. L.**, Jeuland, M., Bharati, L., and Pandey, V. P. (2019). The role of hydropower in visions of water resources development for rivers of Western Nepal. *International Journal of Water Resources Development*, 1-28. doi: [10.1080/07900627.2019.1600474](https://doi.org/10.1080/07900627.2019.1600474).
- Pakhtigian, E. L.** and Jeuland, M. (2019). Valuing environmental quality: Evidence from Western Nepal. *Ecological Economics*, 158, 158-167. doi: [10.1016/j.ecolecon.2018.12.021](https://doi.org/10.1016/j.ecolecon.2018.12.021).
- 2018 Pattanayak, S. K., **Pakhtigian, E. L.**, and Litzow, E. L. (2018). Through the looking glass: Environmental health economics in low and middle income countries. *Handbook of Environmental Economics*, 4, 143-191. doi: [10.1016/bs.hesenv.2018.08.004](https://doi.org/10.1016/bs.hesenv.2018.08.004).

Working Papers

- 2020 “The Effect of Coal-Fired Power Plant Closures on Emergency Department Visits for Asthma-Related Conditions Among Young Children in Chicago, 2009-2017” with S. Komisarow (*Under review*)
- “Ending open defecation: Do neighbors influence sanitation behaviors?” with K. Dickinson and S. K. Pattanayak (*Under review*)
- “Are power plant closures a breath of fresh air? Air pollution, absences, and achievement” with S. Komisarow (*Under review*)
- 2019 “Hydro-economic Modeling Framework to Address Water-Energy-Environment-Food Nexus Questions at the River Basin Scale” with M. Bekchanov, A. Sood, and M. Jeuland (*Working paper*)

Selected Works in Progress

“Where there’s fire, there’s smoke: The causal impact of Indonesia’s forest fire emissions on behavior and health”

“Collective action for sanitation: Evidence from experimental games in rural India”

“Joint impacts of indoor and outdoor air pollution on health in Indonesia” with S. K. Pattanayak and J-S. Tan Soo

Policy Reports

- 2019** Marzolf, N. C., **Pakhtigian, E. L.**, Burton, E., Jeuland, M., Pattanayak, S. K., Phillips, J., Singer, C. E., Taylor, H., Hallack, M. C. M., Cuervo, J. and Jacome, C. (2019). The energy access dividend in Haiti and Honduras. Report to the Inter-American Development Bank. (*Report*)
- IPBES (Contributing Author). (2019). Global Assessment on Biodiversity and Ecosystem Services. (*Draft*)

RESEARCH GRANTS

- 2020-21** Resources for the Future (RFF)
Co-Investigator: “Quantifying Benefits of Using Satellite Derived Early Warning Systems to Predict Cholera in Bangladesh” (\$100,000)
- 2019-20** International Growth Centre (IGC)
Co-PI: “Opening the black box of information interventions: Evidence from India” (£56,800)

PRESENTATIONS

- 2020** IZA Workshop on Environment, Health and Labor Markets, Bonn, Germany (*Canceled*)
European Association of Environmental and Resource Economists Annual Meeting, virtual (*Upcoming*)
Association of Environmental and Resource Economists Annual Meeting, virtual (*Upcoming*)
Moravian College Scarcity: Poverty and Inequality InFocus Conference, virtual
- 2019** Southern Economic Association Annual Meeting, Fort Lauderdale, Florida
Association for Public Policy Analysis and Management Annual Meeting, Denver, Colorado
Camp Resources XXVI, Asheville, North Carolina
Sustainable Energy Transitions Initiative Annual Meeting, Santiago, Chile
Allied Social Science Association Annual Meeting, Atlanta, Georgia
Digo Jal Bikas Dissemination Workshop, Kathmandu, Nepal
- 2018** World Congress of Environmental and Resource Economists, Gothenburg, Sweden
- 2017** Trade-off Arena Workshop, Kathmandu, Nepal
- 2015** Eastern Economic Association Annual Meeting, New York City, New York

TEACHING EXPERIENCE

Instructor

- 2019 F** Instructor, Master of Public Policy Math Refresher Course, Duke University
- 2018 F** Co-Instructor, Advanced Course on Program Evaluation for Natural Resource and Environmental Economists Workshop, SANDEE, Kathmandu, Nepal
- 2018 F** Instructor, Master of Public Policy Math Refresher Course, Duke University

FELLOWSHIPS, PRIZES, AND AWARDS

- 2019** Fleishman Ph.D. Fellowship (\$10,600)
2018-19 Duke Graduate School Award for Conference Travel (\$1,125)
2018 Duke Graduate School Preparing Future Faculty Fellow
Duke India Institute Travel Grant (\$1,860)
Duke University Center for International & Global Studies Graduate Awards for Research and Training (\$750)
Duke Graduate School Professional Development Grant (\$400)
2017-18 Duke University Center for International & Global Studies Grant for Graduate Working Groups on Global Issues (\$2,000)
2016-20 Sanford School of Public Policy Small Grants (\$2,700)
2016-19 Duke University Graduate School Summer Research Fellowship (\$22,000)
2011-15 Moravian College Comenius Medallion Scholarship (Full Tuition)

RESEARCH EXPERIENCE

- 2018** Graduate Research Assistant to Dr. Subhrendu Pattanayak
Project: Evaluating the Energy Access Dividend for Latin America
2016-19 Graduate Research Assistant to Dr. Marc Jeuland
Project: Sustainable, Just, and Productive Water Resources Development in Western Nepal
2016 Graduate Research Assistant to Dr. Amar Hamoudi
Project: Arsenic Contamination and Cognitive Ability in Rural Bangladesh
2014 Intern, International Centre for Diarrhoeal Disease Research, Bangladesh
2013-15 Data Editor, Brown University Population Studies & Training Center

RELATED SKILLS

Computing Proficiency: L^AT_EX, Microsoft Office, Stata

Computing Experience: AERMOD, ArcGIS, ArcSWAT, GAMS, IHACRES, ODK, MATLAB, QGIS, R

Languages: English (native), Spanish (basic)

Field Work: Bangladesh, India, Nepal

PROFESSIONAL ACTIVITIES, SERVICES, AND AFFILIATIONS

Referee: Journal of Hydrology, PLOS One, Resource and Energy Economics, Water Resources Research, World Development Perspectives

Coordinator: Global Environmental Health and Energy Working Group (2017-18, 2018-19), Graduate Research Workshop (2018-19), PhD Distinguished Speaker Lecture (2019)

Member of: American Economic Association, Association of Environmental and Resource Economists, Association for Public Policy Analysis and Management, European Association of Environmental and Resource Economists