

# PAMELA JAGGER

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## EDUCATION

**Indiana University**, PhD, Public Policy (2009) (Chair, Elinor Ostrom)  
Concentrations in Political Theory and Methods, Public Policy, Environmental Policy

**University of Alberta**, MSc, Natural Resource Economics (1998); BA, Economics (1994)

## ACADEMIC APPOINTMENTS

### **University of Michigan, Ann Arbor**

School for Environment and Sustainability (SEAS)

Program in the Environment (College of Literature, Science and the Arts)

Gerald R. Ford School of Public Policy (courtesy)

Professor (2022 – present)

Associate Professor (2018 – 2021)

### **University of North Carolina at Chapel Hill**

Department of Public Policy (College of Arts and Science)

Associate Professor (2015 – 2018)

Assistant Professor (2010 – 2014)

### **Purdue University**

Department of Agricultural Economics (College of Agriculture)

Postdoctoral Research Fellow (2009)

## OTHER APPOINTMENTS

- Senior Research Fellow, Environment for Development Initiative, University of Gothenburg, Sweden (2018 – present)
- Research Fellow, RWI – Leibniz Institute for Economic Research, Essen, Germany (2018 – present)
- Senior Associate, Center for International Forestry Research, Bogor, Indonesia (2009 – 2015)

## OTHER PROFESSIONAL EXPERIENCE

- Visiting Researcher, Lilongwe University of Agriculture and Natural Resources, Malawi (2013 – 2014)
- Visiting Researcher, Makerere University, Uganda (2006 – 2007)
- Research Assistant, Workshop in Political Theory and Policy Analysis, Indiana University (2003 – 2006)
- Research Analyst, International Food Policy Research Institute (IFPRI), Washington, DC (1999 – 2003)
- Research Assistant, Resources for the Future (RFF), (1998 – 1999)

- Consultant, World Bank, Development Working Group, Washington, DC (1998)
- Research Assistant, Department of Rural Economy, University of Alberta (1996 – 1998)
- Research Associate, Institute for Environmental Studies (IES), University of Zimbabwe (1997)
- Economic Research Technician, Canadian Forest Service, (1996 – 1998)

### **ACADEMIC LEADERSHIP**

- Director (Inaugural), PhD/Postdoctoral Fellow Program, School for Environment and Sustainability, University of Michigan, (2021 – 2024; 2025 – present)
- Associate Director, African Studies Center, University of Michigan (2025 – present)
- Chair, Sustainability and Development Concentration, School for Environment and Sustainability, University of Michigan, (2021 – present)
- Executive Committee (Elected), School for Environment and Sustainability, University of Michigan (2019-2021; 2023-2024; 2025-2027)
- Director, Energy Poverty in Southern Africa Initiative, University of Michigan and global partners (2018 – 2025)
- Executive Committee (Elected), African Studies Center, University of Michigan (2019 – 2022)
- Advisory Council, Carolina Population Center, University of North Carolina (CPC) (2016 – 2018)
- Advisory Board, African Studies Center, University of North Carolina (2015 – 2018)
- Interim Director of Graduate Studies, Department of Public Policy, University of North Carolina (2016)

### **FELLOWSHIPS AND AWARDS**

- International Fellow, Woodrow Wilson International Center for Scholars, Washington, DC, (2024 – 2025)
- Global Health Fellowship, Fogarty International Center, National Institutes of Health (2013 – 2014)
- Political Science Young Scholar's Award, National Science Foundation (2012)
- Award for Excellence in Doctoral Research, School of Public and Environmental Affairs (SPEA), Indiana University (2009)
- J. Stewart and Dagmar K. Riley Dissertation Year Fellowship, Indiana University (2008)
- Workshop in Political Theory and Policy Analysis, Dissertation Fellowship, Indiana University (2008)
- Consultative Group for International Agricultural Research (CGIAR), PhD Field Research Fellowship (2006)
- National Science Foundation (NSF), Doctoral Dissertation Enhancement Award (2006)
- Social Science Research Council (SSRC), International Dissertation Field Research Fellowship (2006)
- United States Department of Education, Foreign Language and Area Studies (FLAS) Fellowship (2005)
- Social Science and Humanities Research Council of Canada (SSHRC), Doctoral Fellowship (2004)

- Consultative Group for International Agricultural Research (CGIAR) Secretariat, Neville Clarke Award for Outstanding Teamwork (2001)
- International Development Research Council of Canada (IDRC), Value of Trees Project Award (1996)

## **EXTERNAL ADVISORY ACTIVITIES**

- Environment for Development Initiative, Research Advisory Committee, University of Gothenburg (2020 – present)
- Environment for Development Initiative, Women in Environmental Economics for Development Steering Committee, University of Gothenburg (2028 – present)
- NIH Steering Committee on Climate and Health, Center for Global Health Studies, Fogarty International Center (2023 - present)
- Clean Cooking Implementation Science Network (NIH, USAID, CDC and Clean Cooking Alliance) (2017 – present)
- United States Department of State, Air Quality Fellows Program, Technical support to U.S. Embassy in Chad (2023 – 2024)
- Clean Cooking Implementation Science Network Science to Policy Academy, Malawi Team Mentor (2021 – 2022)
- International Union of Forestry Research Organizations, Global Expert Panel on Forests and Poverty (2019 – 2021)
- ISO Technical Working Group 4 on Social Impacts of Clean Cookstoves (2014 – 2016)

## **SERVICE**

### **Editorial**

- Editor in Chief, *World Development Perspectives* (2019 – 2022)
- Editorial Board, *World Development* (2014 – present)
- Associate Editor, *Environment and Development Economics* (2018 – present)
- Review Editor Board, *EcoHealth* (2018 – present)
- Associate Editor, *BMJ Public Health* (2017 – 2019)

### **Grant Reviews**

- Hubert H. Humphrey Fellowship Program, Institute of International Education, USA
- National Science Foundation, Dynamics of Social-ecological Systems Program, USA
- National Science Foundation, Dynamics of Coupled Natural Human Systems Program, USA
- Austrian Partnership Programme in Higher Education and Research for Development (APPEAR)
- Royal Netherlands Academy of Arts and Sciences – Challenges Exploration Grant
- Natural Environmental Research Council, Ecosystems for Poverty Alleviation (ESPA) Grant, UK
- International Food Policy Research Institute (IFPRI), Strategic Innovation Fund
- International Food Policy Research Institute (IFPRI), 2020 Vision Network for East Africa
- International Tropical Timber Organization (ITTO)

## **Program Reviews**

- Economy and Environment Partnership for Southeast Asia (EEPSEA), Department of Economics, University of Economics, Ho Chi Minh City, Vietnam (2022)
- Environmental Policy Research Unit (EPRU), Department of Economics, University of Cape Town, South Africa (2018)
- Environment for Development (EfD) Prospective Center Evaluation, Departments of Economics and Agricultural Economics, Makerere University, Uganda (2018)

## **Peer Reviews**

*Africa Today; Agricultural Economics; Agriculture, Ecosystems and Environment; Agroforestry Systems; Climate Policy; Conservation Letters; Forests; Ecological Economics; Energy Economics; Energy Policy; Energy for Sustainable Development; Environment and Development Economics; Geoforum; Governance; International Forestry Review; International Journal of the Commons; Journal of Applied Geography; Journal of Development Studies; Journal of Forest Economics; Journal of Policy Analysis and Management; Land Use Policy; Nature Energy; PLOS One; Policy and Society; Population and Environment; Proceedings of the National Academy of Science; Public Administration Review; Regulation and Governance; Society and Natural Resources; World Bank Research Observer; World Development*

## **University of Michigan**

- African Social Research Initiative (ASRI) Steering Committee (2018 – 2022)
- African STEM Initiative Steering Committee (2018 – 2020)

## **University of North Carolina at Chapel Hill**

- Convener Carolina Climate Change Scientists (2012 – 2018)
- Faculty Grievance Committee (Elected) (2014 – 2018)
- Advisory Committee, International Student and Scholar Experience (2016 – 2018)
- Advisory Committee, Graduate Certificate in Natural Hazards Resilience (2015 – 2018)
- Director of Graduate Admissions, Department of Public Policy (2014 – 2017)
- Campus Wide Environmental Task Force (2015 – 2017)
- Search Committee Chief International Officer (2016)
- Carolina Population Center Training Committee (2015 – 2017)
- Campus Wide Environmental Task Force, Research Subcommittee Chair (2015)
- Faculty Advisory Committee – Institute for the Environment (2014 – 2017)

## **GRANTS**

### **External**

- Co-PI, Just Transformations to Sustainability Initiative (University of Notre Dame) and the Institute for Global Change Biology (University of Michigan) Synthesis Science Working Group Program, *Synthesis Working Group on the Status, Impacts, and Potential of Community Conservation in Land and Marine Systems*, 2025 (\$200,000)
- Co-I, National Institutes of Health (NIH), *The Longitudinal Study of Health and Ageing in Kenya (LOSHAK): A Population study of Health, Wellbeing, Economics, and Dementias in Older Kenyan Adults*, 2025 (\$28,635,923)

- Co-I, National Institutes of Health (NIH), National Institute on Aging, *Developing Infrastructure for the Longitudinal Study of Health and Ageing in Kenya (LOSHAK)*, 2022 (\$338,599)
- Co-I, National Institutes of Health (NIH), Clean Cooking Implementation Science Network, Fogarty International Center (FIC), *Feasibility of Scaling 'Clean Stacking' Options in Southern Africa*, 2019 (\$74,993)
- Co-I, National Geographic Society (NGS), Sustainable Cities Program, *Searching for Clean Air and Sustainable Energy Transitions in Yangon, Myanmar*, 2018 (\$83,520)
- PI, National Science Foundation (NSF), Partnerships in International Research and Education (PIRE), *PIRE: Confronting Energy Poverty: Building an Interdisciplinary Evidence Base, Network, and Capacity for Transformative Change*, 2018 (\$4,790,000)
- PI, National Institutes of Health (NIH), Clean Cooking Implementation Science Network, Fogarty International Center (FIC), *Inyenyeri Rwanda Household Energy System Case Study*, 2017 (\$20,000)
- PI, National Science Foundation (NSF), Dynamics of Coupled Natural Human Systems Program, *CNH-L: Energy Transitions and Environmental Change in East and Southern Africa's Coupled Human, Terrestrial, and Atmospheric Systems*, 2016 (\$1,599,883)
- PI, United Nations Foundation/Global Alliance for Clean Cookstoves (GACC) *Evaluating Sustained Adoption of Inyenyeri's Improved Stove and Fuel Initiative in Rwanda*, 2015 (\$255,000)
- PI, International Social Science Council (ISSC) Transformative Knowledge Network (TKN) Seed Grant, *Forest Use, Energy and Livelihoods Transformative Knowledge Network*, 2014 (\$39,000)
- Co-I, National Institutes of Health (NIH), National Institute of Environmental Health Sciences (NIEHS), *The Health and Poverty Effects of a Large-scale Cookstove Initiative in Rwanda*, 2014 (\$2,640,607)
- PI, International Initiative for Impact Evaluation (3IE) Climate Change and Disaster Risk Reduction Thematic Window, *Evaluating Uganda's REDD+ Program*, 2014 (\$20,000)
- Co-PI, National Science Foundation (NSF), Dynamics of Coupled Human and Natural Systems, *The Effects of China's Grain-for-Green Program on the Dynamics of Coupled Natural-Human System in Rural China*, 2013 (\$1,165,000)
- PI, National Institutes of Health (NIH), National Institute of Child Health and Human Development (NICHD), K01 Mentored Research Scientist Development Award *Population, Environment and Health Dynamics of Biomass Fuel Use in Sub-Saharan Africa*, 2012 (\$644,986)
- PI, National Institutes of Health (NIH), National Institute of Child Health and Human Development (NICHD), Administrative Supplement for *Health Impacts of Household Air Pollution on Women's Health and Child Survival*, 2012 (\$185,289)
- Co-PI, Research Triangle Institute - University Collaboration Fund, 2010 (\$14,200)

### **University of Michigan**

- Center for Global Health Equity, Accelerator Grant, 2024, (\$100,000)
- Population Dynamics and Health Program (PHDP) Pilot Grant Award, 2024 (\$15,000)
- School for Environment and Sustainability Theme Award, Building a Locally Informed and Sustainable Platform Characterizing Vulnerabilities to Climate Risk: Climate, Health, and Environmental Surveillance System for Kenya (CHESS-K), 2023 (\$98,500)

- Population Dynamics and Health Program (PHDP) Pilot Grant Award, 2021 (\$15,000)
- Population Dynamics and Health Program (PHDP) New Investigator Faculty Research Mentoring Program, 2020 (\$15,000)

#### **University of North Carolina at Chapel Hill**

- Jimmy and Judy Cox Asia Initiative Travel Award, Carolina Asia Center, 2016 (\$6,000)
- Humphrey Award, Carolina Population Center, 2016 (\$15,000)
- Seed Grant, Carolina Population Center, 2012 (\$11,645)
- Gillings School of Global Public Health, Explorations in Global Health Grant, 2012 (\$8,000)
- Social Science Seed Grant for Multidisciplinary Research, Odum Institute, 2012 (\$12,500)
- Carolina Population Center, Summer in Residence Fellowship, 2011 (\$15,000)

#### **PEER REVIEWED ARTICLES (61)**

Mahieu, A., R. McCord, K.B. Beach, C. Dai, T. Chilongo, C. Jumbe, and P. Jagger. 2025. Can solar provide sustainable energy for all? Adoption and sustained use of household solar technologies in Malawi. *Energy Research for Social Science* 127: 104249.

Parsons, S., Hayes, W., Pedit, J., Kabwe, G., Yamba, F., Serenje, N., Bailis, R., Jagger, P., and A. Grieshop. 2025. Impacts of a cookstove intervention in urban Zambia on cook's personal exposure to carbon monoxide and particulate matter. Forthcoming at *GeoHealth*.

Richardson, L., Shrestha, P., Milliken, C., Sills, E.O., Lloyd, S., Nareau, L.C., Scott, S., and P. Jagger. 2025. Money matters: Does access to financial services foster household energy transitions in Africa? *Energy Research and Social Science* 127: 104215.

Jagger, P., A. Gallerani, I. Hoffman, C. Jumbe, R. McCord, J. Pedit, S. Phiri, R. Krysiak, and K. Maleta. 2024. Household Air Pollution Exposure and Risk of Tuberculosis among Adult Women in Lilongwe, Malawi. *BMJ Public Health*: 2:e000176.

McCord, R., S. Parsons, A.S. Bittner, C. Jumbe, J. Pedit, N. Serenge, A. Grieshop and P. Jagger. 2024. Risk of Cognitive Impairment from Biomass Cooking in Africa. *Indoor Air* 2024: 7363613.

Thompson, J., R.B. Ramazani, C.S. Sinai, K.K. Bindu, and P. Jagger. 2024. Do Decentralized Solar Mini Grids Improve Energy Access for Small Enterprises in Goma, Democratic Republic of Congo? *Energy for Sustainable Development* 81:101464.

Zhang, Q., S. Tao, P. Jagger, R. Bilsborrow, Z. Shang, Q. Huang, L. Band, Q. Zhang and C. Song. 2024. Remittance from migrants reinforces forest recovery for China's reforestation policy. *PLoS One* 19(6): e0296751.

Jagger, P., J. Zavaleta Cheek, D.C. Miller, C. Ryan, P. Shyamsundar, and E.O. Sills. 2022. The Role of Forests and Trees in Poverty Dynamics. *Forest Policy and Economics* 140:102750.

Aung, T., P. Jagger, K.T. Hlaing, K.K. Han and W. Kobayashi. 2022. City Living but Still Energy Poor? Household Energy Transitions under Rapid Urbanization in Myanmar. *Energy Research and Social Science* 85:102432.

- Vanatta, M., B. Rathod, J. Calzavara, T. Courtright, T. Sims; É Saint-Sernin, H. Clack, P. Jagger, and M. Craig. 2022. Emissions Impacts of electrifying motorcycle taxis in Kampala, Uganda. *Transportation Research Part D: Transport and the Environment* 104: 103193.
- Weyant, C., A-B. Amoah, A. Bittner, J. Pedit, S.N.A. Codjoe, and P. Jagger. 2022. Occupational Exposure in the Informal Sector: A Case of Fish Smoking in Coastal Ghana. *Environmental Health Perspectives* 130(1): 017701-1 – 017701-4.
- Aung, T, R. Bailis, T. Chilongo, A. Ghilardi, C. Jumbe and P. Jagger. 2021. Energy Access and the Ultra-poor: Do Unconditional Social Cash Transfers Close the Energy Access gap in Malawi? *Energy for Sustainable Development* 60:102-112.
- Espira, L., T. Aung, P. Jagger, and J.N.S. Eisenberg. 2021. Determinants of Pathogen Contamination of the Environment in the Greater Yangon Area, Myanmar. *Environmental Science and Technology*. 55(24):16465-16476.
- Hajjar, R., J. Zavaleta Cheek, P. Jagger, J. Kamoto, P. Newton, J. Oldekop, and O.H. Razafindratsima. 2021. Commentary: Research Frontiers on Forests, Trees and Poverty Dynamics. *Forest Policy and Economics* 131: 102554.
- Jeuland, M., T.R. Fetter, Y. Li, S.K. Pattanayak, F. Usmani, R. Bluffstone, C. Chavez, H. Girardeau, S. Hassen, P. Jagger, M. Jaime, M. Karumba, G. Köhlin, L. Lenz, E. Litzow, L. Masatsugu, M. A. Naranjo, J. Peters, P. Qin, R. Ruhinduka, M. Serrano, M. Sievert, E.O. Sills, and M. Toman. 2021. Is Energy the Golden Thread? A Systematic Review of the Impacts of Modern and Traditional Energy Use in Low- and Middle-Income Countries. *Renewable and Sustainable Energy Reviews* 135: 1-22.
- Miller, D.C., M. Gabay, R. Hajjar, P. Jagger, J. Kamoto, S. Mansourian, J. Oldekop, P. Shyamsundar, T. Sunderland, C. Wildburger. 2021. Forests, Trees and Poverty Alleviation: Policy Implications of Current Knowledge. *Forest Policy and Economics* 131: 102566.
- Rosenthal, J., R.E. Arku, J. Baumgartner, J.M. Brown, J. Eisenberg, P. Jagger, P. Hovmand, D. Luke, A. Quinn, and G. Yadama. 2020. Systems Science Approaches for Global Environmental Health Research: Enhancing Intervention Design and Program Implementation in Household Air Pollution and Water, Sanitation and Hygiene (WASH) Programs. *Environmental Health Perspectives* 128(10): 105001-1-12.
- Call, M., C. Gray, and P. Jagger. 2019. Smallholder Livelihood Responses to Climate Anomalies in Rural Uganda. *World Development* 115:132-144.
- Jagger, P., I. Das., S. Handa, L. Nylander-French, and K. Yeatts. 2019. Early Adoption of an Improved Household Energy System in Urban Rwanda. *EcoHealth* 16(1): 7-20.
- Puzzolo, E., H. Zerriffi, E. Carter, H. Clemens, H. Stokes, P. Jagger, J. Rosenthal, and H. Petach. 2019. Supply Considerations for Scaling-up Clean Cooking Fuels for Household Energy in Low and Middle-Income Countries. *GeoHealth*. 3.
- Das, I., J. Pedit, S. Handa, and P. Jagger. 2018. Household Air Pollution, Microenvironment and Child Health: Strategies for Mitigating HAP Exposure in Urban Rwanda. *Environmental Research Letters* 13: 145011.

- Jagger, P. and I. Das. 2018. Implementation and Scale-up of a Biomass Pellet and Improved Cookstove Enterprise in Rwanda. *Energy for Sustainable Development* 46: 32-41.
- Jagger, P., S. Sellers, N. Kittner, I. Das, and G. Bush. 2018. Medium-Term Impacts of Community Management Agreements in Uganda's Rwenzori Mountains National Park. *Ecological Economics* 152: 199-206.
- Seguin, R., V. Flax and P. Jagger. 2018. Barriers and Facilitators to Adoption and Use of Improved cookstoves and Fuel Pellets in Urban Rwanda. *PLoS One* 13(10) e0203775.
- Song, C., R. Bilsborrow, P. Jagger, Q. Zhang, X. Chen and Q. Haung. 2018. Fuelwood Use in Rural China: Do Forest Restoration and Conservation Programs Matter? *Ecological Economics* 145:148-159.
- Treacy, P., P. Jagger, C. Song, Q. Zhang, and R.E. Bilsborrow. 2018. Impacts of China's Conversion of Cropland to Forest Program on Migration and Household Income. *Environmental Management* 62(3):489-499.
- Call, M. and P. Jagger. 2017. Social Capital, Collective Action and Communal Grazing Lands in Uganda. *International Journal of the Commons* 11(2): 854-876.
- Duchelle, A.E., C. de Sassi, P. Jagger, M. Cromberg, A.M. Larson, W.D. Sunderlin, I.A.P. Resosudarmo and C.D. Pratama. 2017. Balancing Carrots and Sticks in REDD+ Implementation: Implications for Social Safeguards. *Ecology and Society* 23(3):2.
- Jagger, P. and N. Kittner. 2017. Deforestation and Biomass Fuel Dynamics in Uganda. *Biomass and Bioenergy* 105: 1-9.
- Jagger, P., J. Pedit, A. Bittner, L. Hamrick, T. Phwandaphwanda, and Charles Jumbe. 2017. Fuel Efficiency and Emissions of Wood-Burning Improved Cookstoves in Malawi: Implications for Scaling-up Cookstove Programs. *Energy for Sustainable Development* 41:112-120.
- Jagger, P. and P. Rana. 2017. Using Publicly Available Social and Spatial Data to Quantitatively Assess Social Impacts of Early REDD+ Activities in Kalimantan, Indonesia. *Environmental Science and Policy* 76: 59-69.
- Mason Meier, B., I. Das<sup>†</sup> and P. Jagger. 2017. A Burning Opportunity: Using Human Rights as a Catalyst for Policies to Mitigate the Health Risks of Household Air Pollution. *Journal of Human Rights and Environment* 9(1):89-106.
- Sills, E.O., C. de Sassi, P. Jagger, K. Lawlor, D. Miteva, S.K. Pattanayak and W.D. Sunderlin. 2017. Building the Evidence Base for REDD+: Evaluating the Impacts of Conservation Interventions on Human Welfare. *Global Environmental Change* 43:148-160.
- Das, I., P. Jagger and K. Yeatts. 2016. Biomass Cooking Fuels and Health Outcomes for Women in Malawi. *EcoHealth* October: 1-13.
- Jagger, P. and C. Jumbe. 2016. Stoves or Sugar? Willingness to Adopt Improved Cookstoves in Malawi. *Energy Policy* 92:409-419.



- Jagger, P. and C. Perez-Heydrich. 2016. Land Use and Biomass Fuel Dynamics in Malawi. *Environmental Research Letters* 11: 1-14.
- Galik, C. and P. Jagger. 2015. Bundles, Duties and Rights: A Revised Framework for Analysis of Natural Resource Property Rights Regimes. *Land Economics* 91(1):76-90.
- Jagger, P. and G. Shively. 2015. Taxes and Bribes in Uganda. *Journal of Development Studies* 51(1): 66-79.
- Angelsen, A., P. Jagger, R. Babigumira, B. Belcher, N. Hogarth, S. Bauch, J. Borner, C. Smith-Olsen and S. Wunder. 2014. Environmental Income and Rural Livelihoods: A Global Comparative Analysis. *World Development* 64 (Supplement 1): S12-S28.
- Chaifetz, A. and P. Jagger. 2014. 40 Years of Dialogue on Food Sovereignty: A Review and a Look Ahead. *Global Food Security* 3: 95-81.
- Jagger, P. 2014. Clarity vs. Confusion: Property Rights and Forest Use in Uganda. *Forest Policy and Economics* 45:32-41.
- Jagger, P., M. Brockhaus, A. Duchelle, M.F. Gebera, K. Lawlor, I.A.P. Resosudarmo, and W.D. Sunderlin. 2014. Multi-level Policy Dialogues and Actions: Challenges and Opportunities for National REDD+ Safeguards Monitoring, Reporting and Verification (MRV). *Forests* 5(9):2136-2162.
- Jagger, P., M.K. Luckert, A. Duchelle, J.F. Lund and W.D. Sunderlin. 2014. Tenure and Forest Income: Observations from a Global Study on Forests and Poverty. *World Development* 64(Supplement 1): S43-S55.
- Jagger, P. and G. Shively. 2014. Land Use Change, Fuel Use and Respiratory Health in Uganda. *Energy Policy* 67: 713-726.
- Song, C., Y. Zhang, Y. Mei, Z. Zhang, Q. Zhang, T. Zha, K. Zhang, C. Huang, X. Xu, P. Jagger, X. Chen, and R. Bilsborrow. 2014. Forest Sustainability and China's Sloping Land Conversion Program (SLCP): A Comparison among Three Sites in Anhui, Hubei and Shanxi. *Forest Policy and Economics* 38: 161-167.
- Jagger, P. 2012. Environmental Income, Rural Livelihoods and Income Inequality in Western Uganda. *Forests, Trees and Livelihoods* 21(2): 1-15.
- Jagger, P., M.K. Luckert, A. Banana and J. Bahati. 2012. Asking Questions to Understand Rural Livelihoods: Comparing Disaggregated vs. Aggregated Approaches to Household Livelihood Questionnaires. *World Development* 40(9):1810-1823.
- Jagger, P., G. Shively and A. Arinaitwe. 2012. Circular Migration, Small-scale Logging and Livelihoods in Uganda. *Population and Environment* 34:217-234.
- Caplow, S., P. Jagger, K. Lawlor and E. Sills. 2011. Evaluating the Land Use and Livelihood Outcomes of Early Forest Carbon Projects: Lessons for REDD+. *Environmental Science and Policy* 14(2): 152-167.

- Khundi, F., P. Jagger, D. Sserunkuuma and G. Shively. 2011. Income and Poverty Effects of Charcoal Production in Western Uganda. *Forest Policy and Economics* 13: 199-205.
- Reyes-Garcia, V., V. Vadez, J. Aragón, T. Huanca and P. Jagger. 2010. The Uneven Reach of Decentralization: A Case Study among Indigenous Peoples in the Bolivian Amazon. *International Political Science Review* March: 229-243.
- Shively, G., P. Jagger, D. Sserunkuuma, A. Arinaitwe, and C. Chibwana. 2010. Profits and Margins along Uganda's Charcoal Value Chain. *International Forestry Review*. 12(3): 270-283.
- Bartley, T., K. Andersson, P. Jagger and F. van Laerhoven. 2008. The Contribution of Institutional Theories to Explaining Decentralization of Natural Resource Governance. *Society and Natural Resources* 21(2): 160-174.
- Jagger, P. and M.K. Luckert. 2008. Investments and Returns from Cooperative and Household Managed Woodlots in Zimbabwe: Implications for Rural Afforestation Policy. *Land Use Policy* 25(1): 139-152.
- Jagger, P., J. Pender and B. Gebremedhin. 2005. Trading-off Environmental Sustainability for Empowerment and Income: Woodlot Devolution in Northern Ethiopia. *World Development* 33(9): 1491-1510.
- Pender, J., P. Jagger, E. Nkonya and D. Sserunkuuma. 2004. Development Pathways and Land Management in Uganda. *World Development* 32(5): 767-792.
- Pender, J., E. Nkonya, P. Jagger, D. Sserunkuuma and H. Ssali. 2004. Strategies to Increase Agricultural Productivity and Reduce Land Degradation: Evidence from Uganda. *Agricultural Economics* 31(2/3): 181-195.
- Jagger, P. and J. Pender. 2003. The Role of Trees for Sustainable Management of Less Favored Lands: The Case of Eucalyptus in Ethiopia. *Forest Policy and Economics* 3(1): 83-95.
- Jagger, P. and J. Pender. 2001. Markets, Marketing, and Production Issues for Aquaculture in East Africa: The Case of Uganda. *Naga - The ICLARM (International Center for Living Aquatic Resources Management) Quarterly* 24(1&2): 42-51.
- Grundy, I., J. Turpie, P. Jagger, E. Witkowski, I. Guambe, D. Semwayo and A. Solomon. 2000. Implications of Co-Management for Benefits from Natural Resources for Rural Households in Northeastern Zimbabwe. *Ecological Economics* 33(3): 369-381.
- Alavalapati, J., W. White, P. Jagger and A. Wellstead. 1996. Effect of Land Use Restrictions on the Economy of Alberta: A Computable General Equilibrium Analysis. *Canadian Journal of Regional Science* 19(3):3.

#### **REFEREED BOOK CHAPTERS (7)**

- Jagger, P., R. Bailis, A. Dermawan, N. Kittner, and R. McCord. 2019. SDG 7: Affordable and Clean Energy – How Access to Affordable and Clean Energy Affects Forests and Forest-Based Livelihoods. In *Sustainable Development Goals: Their Impacts on Forests and People*. P. Katila,

C.J.P. Colfer, W. de Jong, G. Galloway, P. Pacheco and G. Winkel, G. (eds.) Cambridge, UK: Cambridge University Press.

Jagger, P., K Lawlor, M. Brockhaus, M.F. Gebara, D. Sonwa and I.A.P. Resosudarmo. 2012. REDD+ Safeguards in National Policy Discourse and Pilot Projects. In *Analyzing REDD+: Challenges and Choices*, A. Angelsen, M. Brockhaus, W.D. Sunderlin and L. Verchot (eds). Bogor, Indonesia: Center for International Forestry Research. Pp. 301-317

Jagger, P. 2010. Forest Sector Reform, Livelihoods and Sustainability in Western Uganda. In *Governing Africa's Forests in a Globalized World*, L. German, A. Karsenty and A.M. Tiani (eds). London, UK: Earthscan Publications Ltd. and CIFOR. Pp. 103-125.

Jagger, P., S. Atmadja, S.K. Pattanayak, E. Sills and W.D. Sunderlin. 2009. Learning by Doing: Evaluating Impacts of REDD. In *Realizing REDD: National Strategy and Policy Options*, A. Angelsen (ed). Bogor, Indonesia: Center for International Forestry Research. Pp. 281-292.

Jagger, P. and J. Pender. 2006. Influence of Programs and Organizations on the Adoption of Sustainable Land Management Technologies in Uganda. In *Strategies for Sustainable Land Management in the East African Highlands*, J. Pender, S. Ehui and F. Place (eds). Washington, DC: International Food Policy Research Institute and World Bank. Pp. 277-308.

Sedjo, R., B. Sohngen and P. Jagger. Carbon Sinks in the Post Kyoto World. 2001. In *Climate Change Economics and Policy*, M. Toman (ed). Washington, DC: Resources for the Future Press. Pp. 134-142.

Simpson, R.D. and P. Jagger. 2000. Market Economy and Biodiversity. In *Encyclopedia of Biodiversity*, S. Levin (ed). London, UK: Academic Press. Pp. 85-95.

#### **OTHER PEER REVIEWED PUBLICATIONS (12)**

Jagger, P., J.Z. Cheek, D.C. Miller, C. Ryan, O. Razafindratsima, P. Shyamsundar and E.O. Sills. 2020. Chapter 2: Key Concepts for Understanding Forest-Poverty Dynamics. In *Forests and Trees and the Eradication of Poverty: A Global Assessment Report*, D.C. Miller, S. Mansourian and C. Wildburger (eds). IUFRO World Series Volume 39. Vienna, Austria: International Union of Forestry Research Organizations.

Miller, D.C., S. Mansourian, J.Z. Cheek, M. Gabay, R. Hajjar, P. Jagger, J. Kamoto, P. Newton, J.A. Oldekop, O. H. Razafindratsima, P. Shyamsundar and C. Wildburger. 2020. Conclusion: Forests, Trees and the Eradication of Poverty. In *Forests and Trees and the Eradication of Poverty: A Global Assessment Report*, D.C. Miller, S. Mansourian and C. Wildburger (eds). IUFRO World Series Volume 39. Vienna, Austria: International Union of Forestry Research Organizations.

Jagger, P., E.O. Sills, K. Lawlor, and W.D. Sunderlin. 2010. *A Guide to Learning about Livelihood Impacts of REDD+ Projects*. Bogor, Indonesia: Center for International Forestry Research.

Jagger, P. 2008. *Forest Incomes after Uganda's Forest Sector Reform: Are the Poor Gaining?* CAPRI (CGIAR System Wide Program on Collective Action and Property Rights) Working Paper Series No 92. Washington, DC: International Food Policy Research Institute.

Nkonya, E., J. Pender, P. Jagger, D. Sserunkuuma, C. K. Kaizzi and H. Ssali. 2004. *Strategies for Sustainable Land Management and Poverty Reduction in Uganda*. IFPRI Research Report No. 133. Washington, DC: International Food Policy Research Institute.

Jagger, P. and J. Pender. 2003. *Impacts of Programs and Organizations on the Adoption of Sustainable Land Management Technologies in Uganda*. Environment and Production Technology Division Discussion Paper No. 101. Washington, DC: International Food Policy Research Institute.

Jagger, P., J. Pender and B. Gebremedhin. 2003. *Woodlot Devolution in Northern Ethiopia: Opportunities for Empowerment, Smallholder Income Diversification, and Sustainable Land Management*. Environment and Production Technology Division Discussion Paper No. 107. Washington, DC: International Food Policy Research Institute.

Babu, S., P.B.R. Hazell, P. Jagger and A. Knox. 2002. *Future Opportunities for Rural Africa*. Environment and Production Technology Division Workshop Summary Paper No. 11. Washington, DC: International Food Policy Research Institute.

Jagger, P. and J. Pender. 2001. *Policies for Improved Land Management in Uganda*. Environment and Production Technology Division Workshop Summary Paper No. 10. Washington, DC: International Food Policy Research Institute.

Pender, J., P. Jagger, E. Nkonya and D. Sserunkuuma. 2001. *Development Pathways and Land Management in Uganda: Causes and Implications*. Environment and Production Technology Division Discussion Paper No. 85. Washington, DC: International Food Policy Research Institute.

Jagger, P. and J. Pender. 2000. *The Role of Trees for Sustainable Management of Less Favored Lands: The Case of Eucalyptus in Ethiopia*. Environment and Production Technology Division Discussion Paper No. 65. Washington, DC: International Food Policy Research Institute.

Jagger, P., W. White, and R. Sedjo. 1999. *El Niño, Ice Storms and the Market for Residential Fuelwood in Eastern Canada and the Northeastern US*. RFF Discussion Paper No. 44. Washington, DC: Resources for the Future.

#### **UNDER REVIEW (4)**

Beach, K.E.B., Goel, V., Wu, Y., Entwisle, B., and P. Jagger. Do coupled population, economic, and land use dynamics explain household energy transitions in Malawi? Revise and resubmit at *World Development*.

Dai, C., R. McCord, K.B. Beach, A. Mahieu, T. Chilongo, C. Jumbe, and P. Jagger. Unlocking Financial Inclusion through Solar Technology Adoption. Revise and resubmit at *Energy Economics*.

Ludwig-Borycz, E., A. Baylin, C.A. Moyer, N. Kochanski, N. Pradhan, S.A. Bell, J. Eisenberg, P. Jagger, N. Siddika, P. Larson, S. Zhou, C. Liao, and A. Agrawal. Higher Temperatures are Associated with Lower Birthweight in Bangladesh. Under review at *BMJ Public Health*.

McCord, R., K.E.B. Beach, A. Mahieu, T. Chilongo, C. Jumbe, and P. Jagger. Shining light on the scale, use, and impact of household solar for achieving energy access in rural Africa. Under review at *Energy Research and Social Science*.

## INVITED TALKS

- *Policies, Data, and Capacity for Weathering Climate Shocks in the Global South*, International Conference on Environment, Law, and Governance, University of Economics and Asian Association for Environmental and Resource Economics, Ho Chi Minh City, Vietnam (2025)
- *Policies for Mitigating and Adapting to Climate Change*, Climate Change Health and Population Science Division, International Center for Diarrheal Disease Research, Dhaka, Bangladesh (2025)
- *The Role of Africa's Forests in Advancing the Global Climate Change Mitigation Agenda*, Forest Industry Lecture Series, University of Alberta, Edmonton, Canada (2025)
- *Pathways to Household Energy Transitions in Africa*, Energy and Environmental Economics and Policy Seminar Series, Pennsylvania State University (2025)
- *Insights from 10 Years of Energy Access Research in Africa*, Keynote Address, Environment for Development Initiative Annual Meeting, Kampala, Uganda (2022)
- *The Population and Environment Dynamics of Energy Access in Sub-Saharan Africa*, School of Environment and Sustainability, University of Michigan (2018)
- *The Challenge of Household Air Pollution in Africa: Pathways to Scaling-up Clean(er)Cooking*, Center for the Study of Demography and Ecology, University of Washington (2018)
- *Transforming Household Energy Systems in Rwanda* Global Alliance for Clean Cookstoves Biannual Forum, Delhi, India (2017)
- *Reflections from the Field: Forests, Fuel, Poverty and Policy*, Center of Research on Environmental Geography, Universidad Nacional Autonoma de Mexico, 2017; *Women's Health and the Environment: Going Up in Smoke*, 2017 Provost's Global Forum, University of Iowa (2017)
- *Enhancing Adoption and Sustained Use of Improved Cookstoves in Malawi and Rwanda*, Global Alliance for Clean Cookstoves Biannual Forum, Accra, Ghana (2015)
- *The Challenge of Household Air Pollution in Sub-Saharan Africa*, Baraza Lecture Series, University of Florida (2015)
- *Evaluating the Impacts of REDD+ Pilots and Preparation in Sub-Saharan Africa*, Making Impact Evaluation Matter: Better Evidence for Policies and Programs (ADB and 3IE), Manila, Philippines (2014)
- *The Health and Welfare Impacts of Biomass Burning in Malawi*, NIEHS Symposium on Assessing Exposures and Health Effects Related to Indoor Biomass Fuel Burning, NIH (2014)
- *Environmental Income and Rural Livelihoods: Findings from a Global Comparative Study on Forests and Livelihoods*, Tropical Agricultural Research and Higher Education Center (CATIE), Turrialba, Costa Rica (2015)
- *Forest Use, Energy and Livelihoods: Emerging Questions for East and Southern Africa*, Center for International Forestry Research, Lusaka, Zambia, 2014; FAO Regional Office for Southern Africa, Harare, Zimbabwe (2014)

- *Willingness to Adopt Improved Cookstoves in Malawi*, Energy for Development (EnDev) Regional Meeting Keynote Address, Mulanje, Malawi (2014)
- *Environmental Income and Rural Livelihoods: A Global Comparative Analysis*, North Carolina State University (2013)
- *Forest and Environmental Income: Testing Conventional Wisdoms of Poverty, Tenure, and Access*, Counting on the Environment: The Contribution of Forests to Rural Livelihoods, Royal Society, London, UK (2011)
- *A Guide to Learning about Livelihood Impacts of REDD+ Projects*, UNFCCC Conference of the Parties (COP) 16, Cancun, Mexico (2010)
- *Forest Sector Reform and Rural Livelihood Outcomes in Uganda*, Michigan State University (2009); University of North Carolina (2008); Queen's University, Kingston, Ontario, Canada (2008); Center for International Forestry Research, Bogor, Indonesia (2008); Department of Agricultural Economics, Purdue University (2008)
- *Motivating Smallholder Investment in Sustainable Land Management: Emerging Roles for NGOs in Uganda*, United Nations Economic Commission for Africa, Addis Ababa, Ethiopia (2002)

## **COURSES TAUGHT**

### **Doctoral**

- Institutional Analysis for Public Policy
- Social Science Research Paradigms

### **Masters**

- Political Economy of Sustainable Development
- Poverty and Environment Dynamics
- Program Evaluation

### **Undergraduate**

- Energy Economics and Policy
- Environment and Development Economics and Policy
- Political Economy of Food
- Research Design for Public Policy

## **ADVISING**

### **Postdoctoral Advising (placement)**

Dr. Jafor Ahmed, University of Michigan (2024 – 2025)

Dr. Cheryl Weyant, University of Michigan (2020 – 2023) (University of Chicago)

Dr. Ther Aung, University of North Carolina (2017 – 2020) (Case Western University)

Dr. Pushpendra Rana, University of North Carolina (2013-2014) (Conservation International)

### **PhD Advising (placement)**

Congyi Dai, Environment and Sustainability, University of Michigan (Expected 2027)

Ipsita Das, Public Policy, University of North Carolina (2018) (Duke University)

Sam Sellers, Environment and Ecology, University of North Carolina (2017) (USAID)

Ashley Chaifetz, Public Policy, University of North Carolina (2015) (USDA)

Susan Caplow – Environment and Ecology, University of North Carolina (2014) (University of St. Thomas)

### **PhD Committee Member**

Prabisha Shrestha – PhD Geography, University of North Carolina (2024)

Daniel Han – PhD Public Policy, University of North Carolina (2024)

Mark Radin – PhD Environmental Sciences and Engineering, University of North Carolina (2024)

Sandeep Kandicuppa – PhD Environment, Ecology and Energy Program, University of North Carolina (2021)

Averi Chakrabarti – PhD Public Policy, University of North Carolina (2020)

Natasha James – PhD Forestry and Environmental Resources, North Carolina State University (2018)

Maia Call – PhD Geography, University of North Carolina (2017)

Mutekwa Vurayai – PhD Faculty of Science, Rhodes University, South Africa (2017)

Qi Zhang – PhD Geography, University of North Carolina (2017)

Sierra Woodruff – PhD Environment and Ecology, University of North Carolina (2017)

George Omiat – PhD Agricultural Economics, Purdue University (2016)

Carolyn Huang – PhD Public Policy, University of North Carolina (2015)

Kim Engie – PhD Geography, University of North Carolina (2015)

Christopher Galik – PhD Forestry and Environmental Resources, North Carolina State University (2014)

Hiwot Menker Girma – PhD Environmental Economics, University of Pretoria, South Africa (2014)

Jason Bremner – PhD City and Regional Planning, University of North Carolina (2013)

Brian Miller – PhD Environment and Ecology, University of North Carolina (2013)

### **Master's Thesis Advising (placement)**

Andrea Mahieu, Environment and Sustainability, University of Michigan (2024) (University of Michigan)

Charlie Lindsey, Environment and Sustainability/Public Policy, University of Michigan (2022) (Environmental Analytics)

Caleb Milliken, Environment and Sustainability, University of Michigan (2022) (RTI International)

Josh Thompson, Environment and Sustainability, University of Michigan (2022) (3Degrees)

Shannon Lloyd, Environment and Sustainability, University of Michigan (2021) (UN Foundation)

Wakoko Kobayashi, Environment and Sustainability, University of Michigan (2020) (UNDP)

### **Master's Committee Member**

Esther Giezendanner, Public Health (Nutrition), University of North Carolina (2014)

Timothy Smith – M.Sc. Agricultural Economics, Purdue University (2014)

Sarah Wiener – M.Sc. Forestry and Environmental Resources, North Carolina State University, (2014)

Braden Ramage – M.Sc. Forestry and Environmental Resources (NCSU), North Carolina State University (2013)

**Undergraduate Honors Thesis Advising**

Alexandra Huber, Public Policy, University of North Carolina (2017)

Samantha Night, Public Policy, University of North Carolina (2016)

Sangeetha Kumar, Environmental Science, University of North Carolina (2015)

Morgan Abbott, Public Policy, University of North Carolina (2012)

Eva Archer, Global Studies, University of North Carolina (2012)

Anna Gage, Public Policy, University of North Carolina (2012)

Justin Loiseau, High Honors, Best Thesis Award, Environmental Studies, University of North Carolina (2012)

Vanessa Fixmer Oraiz, Environmental Studies, University of North Carolina (2011)

Samantha Surles, High Honors, Best Thesis Award, Public Policy, University of North Carolina (2011)

Elinor Benami, Economics, University of North Carolina (2010)