

PAMELA JAGGER

School for Environment and Sustainability
Dana Building, University of Michigan
Room 2004, 440 Church Street
Ann Arbor, MI, USA 48109

Phone: +01-812-272-6234
pjagger@umich.edu
<https://fuel.seas.umich.edu>
<https://eppsa.cpc.unc.edu>

EDUCATION

- 2009 PhD Public Policy, Indiana University
Dissertation: *Can Forest Sector Devolution Improve Rural Livelihoods? An Analysis of Forest Income and Institutions in Western Uganda* (Chair: Elinor Ostrom)
- 1998 MSc Forest Economics, University of Alberta
- 1994 BA Economics, University of Alberta

ACADEMIC APPOINTMENTS

- 2022 – Professor, School for Environment and Sustainability, University of Michigan
- 2022 – Professor, Program in the Environment, College of Literature, Science and the Arts, University of Michigan
- 2022 – Professor (courtesy), Gerald R. Ford School of Public Policy, University of Michigan
- 2018 – 2022 Associate Professor, School for Environment and Sustainability, University of Michigan
- 2021 – 2022 Associate Professor, Program in the Environment, College of Literature, Science and the Arts, University of Michigan
- 2019 – 2022 Associate Professor (courtesy), Gerald R. Ford School of Public Policy, University of Michigan
- 2022 – Research Professor, Geography, University of North Carolina at Chapel Hill
- 2018 – 2022 Research Associate Professor, Geography, University of North Carolina at Chapel Hill
- 2015 – 2018 Associate Professor, Public Policy, University of North Carolina at Chapel Hill
- 2010 – 2015 Assistant Professor, Public Policy, University of North Carolina at Chapel Hill
- 2010 – 2018 Faculty, Curriculum for the Environment and Ecology, University of North Carolina at Chapel Hill
- 2009 Postdoctoral Research Fellow, Department of Agricultural Economics, Purdue University

APPOINTMENTS, UNIVERSITY OF MICHIGAN

- 2022 – Director, SEAS PhD/Postdoctoral Researcher Program
- 2022 – Faculty Associate, Survey Research Center
- 2019 – Faculty Associate, Population Dynamics and Health Program
- 2018 – Faculty Associate, Population Studies Center
- 2019 – Faculty Affiliate, Energy Institute

APPOINTMENTS, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

- 2010 – Faculty Fellow, Carolina Population Center
- 2010 – 2018 Faculty Fellow, Center for Urban and Regional Studies

OTHER APPOINTMENTS

- 2019 – Research Fellow, RWI – Leibniz Institute for Economic Research, Essen, Germany
2018 – Senior Research Fellow, Environment for Development Initiative, University of Gothenburg, Sweden
2009 – 2015 Senior Associate, Center for International Forestry Research, Bogor, Indonesia

ADDITIONAL PROFESSIONAL EXPERIENCE

- 2006 – 2007 Visiting Researcher, Makerere University, Uganda
2003 – 2006 Research Assistant, Workshop in Political Theory and Policy Analysis, Indiana University, USA
2004 Visiting Researcher, International Food Policy Research Institute (IFPRI), Environment and Production Technology Division, USA
1999 – 2003 Research Analyst, International Food Policy Research Institute (IFPRI), Environment and Production Technology Division, USA
1998 – 1999 Research Assistant, Resources for the Future (RFF), Energy and Natural Resources Division, USA
1998 Consultant, World Bank, Development Working Group, Washington, DC, USA
1998 Research Assistant, Department of Rural Economy, University of Alberta, Canada
1997 Research Associate, Institute for Environmental Studies (IES), University of Zimbabwe, Zimbabwe
1996 – 1998 Economic Research Technician, Canadian Forest Service, Social Science Research Group, Canada

PUBLICATIONS (‡ DENOTES STUDENT OR POST-DOC; § DENOTES DEVELOPING COUNTRY COLLABORATOR)

PEER REVIEWED ARTICLES (58)

58. **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* 2024;2:e000176.
57. 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.
56. Thompson, J., R.B. Ramazani, C.S. Sinai, K.K. Bindu, and **P. Jagger**. [Do Decentralized Solar Mini Grids Improve Energy Access for Small Enterprises in Goma, Democratic Republic of Congo?](#) *Energy for Sustainable Development* 81:101464.
55. 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.
54. **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.

53. 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.
52. 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.
51. 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.
50. 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.
49. 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.
48. 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.
47. 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.
46. 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.
45. 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.
44. Call, M.[‡], C. Gray, and **P. Jagger**. 2019. [Smallholder Livelihood Responses to Climate Anomalies in Rural Uganda](#). *World Development*. 115:132-144.
43. **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.
42. 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.

41. 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.
40. **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.
39. **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.
38. 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.
37. 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.
36. 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.
35. 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.
34. 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.
33. **Jagger, P.** and N. Kittner[‡]. 2017. [Deforestation and Biomass Fuel Dynamics in Uganda](#). *Biomass and Bioenergy*. 105: 1-9.
32. **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.
31. **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.
30. Mason Meier, B., I. Das[‡] 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.
29. 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.
28. Das, I.[‡], **P. Jagger** and K. Yeatts. 2016. [Biomass Cooking Fuels and Health Outcomes for Women in Malawi](#). *EcoHealth*. October: 1-13.

27. **Jagger, P.** and C. Jumbe[§]. 2016. [Stoves or Sugar? Willingness to Adopt Improved Cookstoves in Malawi](#). *Energy Policy* 92:409-419.
26. **Jagger, P.** and C. Perez-Heydrich. 2016. [Land Use and Biomass Fuel Dynamics in Malawi](#). *Environmental Research Letters*. 11: 1-14.
25. 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.
24. **Jagger, P.** and G. Shively. 2015. [Taxes and Bribes in Uganda](#). *Journal of Development Studies* 51(1): 66-79.
23. 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.
22. 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.
21. **Jagger, P.** 2014. [Clarity vs. Confusion: Property Rights and Forest Use in Uganda](#). *Forest Policy and Economics* 45:32-41.
20. **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.
19. **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.
18. **Jagger, P.** and G. Shively. 2014. [Land Use Change, Fuel Use and Respiratory Health in Uganda](#). *Energy Policy* 67: 713-726.
17. 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.
16. **Jagger, P.** 2012. [Environmental Income, Rural Livelihoods and Income Inequality in Western Uganda](#). *Forests, Trees and Livelihoods* 21(2): 1-15.
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.
14. **Jagger, P.**, G. Shively and A. Arinaitwe[§]. 2012. [Circular Migration, Small-scale Logging and Livelihoods in Uganda](#). *Population and Environment* 34:217-234.
13. 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.

12. 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.
11. 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.
10. 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.
9. 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.
8. **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.
7. **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.
6. Pender, J., **P. Jagger**, E. Nkonya and D. Sserunkuuma[§]. 2004. [Development Pathways and Land Management in Uganda](#). *World Development* 32(5): 767-792.
5. 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.
4. **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.
3. **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.
2. 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.
1. 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): 349-365.

REFEREED BOOK CHAPTERS (7)

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.

6. **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
5. **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.
4. **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.
3. **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.
2. 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.
1. 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.

NON-REFEREED BOOK CHAPTERS (3)

3. **Jagger, P.** and A. Angelsen. 2011. [The Division of Labor between Village, Household and Other Surveys](#). In *Measuring Livelihoods and Environmental Dependence: Methods for Research and Fieldwork* A. Angelsen, C.S. Olsen, H.O. Larsen, J.F. Lund and S.Wunder (eds). London, UK: Earthscan Publishers. Pp. 89-106.
2. **Jagger, P.**, A. Duchelle, H.O. Larsen and O.J. Nielsen. 2011. [Hiring, Training and Managing a Field Team](#). In *Measuring Livelihoods and Environmental Dependence: Methods for Research and Fieldwork* A. Angelsen, C.S. Olsen, H.O. Larsen, J.F. Lund and S.Wunder (eds). London, UK: Earthscan Publishers. Pp. 163-174.
1. **Jagger, P.**, A. Duchelle, S. Dutt[§] and M. Wyman. 2011. [Preparing for the Field: Managing and Enjoying Fieldwork](#). In *Measuring Livelihoods and Environmental Dependence: Methods for Research and Fieldwork* A. Angelsen, C.S. Olsen, H.O. Larsen, J.F. Lund and S. Wunder (eds). London, UK: Earthscan Publishers. Pp. 147-162.

OTHER PEER REVIEWED PUBLICATIONS (12)

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.

11. 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.
10. **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.
9. **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.
8. 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.
7. **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.
6. **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.
5. 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.
4. **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.
3. 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.
2. **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.
1. **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.

OTHER PUBLICATIONS (6)

6. Ihalainen, M., **P. Jagger**, G. Kabwe, J. Kamoto, D.C. Miller, D.N. Mutta, L.V. Rasmussen and J. Timko. 2021. [Forests, Trees and Poverty Alleviation in Africa: An Expanded Policy Brief](#). D.C. Miller, D.N. Mutta, S. Mansourian, D. Kevkota and C. Wildburger (eds). Global Forest Expert Panel Programme. Vienna, Austria: International Union of Forest Research Organizations.

5. Sunderlin, W.D., A.M. Larson, A.E. Duchelle, E.O. Sills, C. Luttrell, **P. Jagger**, S.K. Pattanayak, P. Cronkleton, A.D. Ekaputri, C. de Sassi, R. Aryani, G. Simonet. 2016. [Technical Guidelines for Research on REDD+ Subnational Initiatives](#). Bogor, Indonesia: Center for International Forestry Research.
4. **Jagger, P.** 2004. [Artisans of Political Theory and Empirical Inquiry: 30 Years of Scholarship at the Workshop in Political Theory and Policy Analysis](#). Bloomington, IN: Workshop in Political Theory and Policy Analysis.
3. Pender, J., E. Nkonya, **P. Jagger**, D. Sserunkuuma[§]. 2003. [An Econometric Approach to NRM Impact Assessment: An Example from Uganda](#). In *Methods for Assessing the Impacts of Natural Resource Management Research*, B. Shiferaw and H.A. Freeman (eds.). A summary of the proceedings of an International Workshop, 6-7 Dec 2002, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, India.
2. Hazell, P.B.R., **P. Jagger** and A. Knox. 2000. *Technology, Natural Resource Management and the Rural Poor*. IFAD Working Paper. Rome, Italy: International Fund for Agricultural Development.
1. **Jagger, P.**, A. Wellstead, and W. White. 1998. *An Expenditure Based Analysis of Community Dependence: A Case Study of the Foothills Model Forest*. CFS and Foothills Model Forest Socioeconomic Publications. Edmonton, AB: Canadian Forest Service.

UNDER REVIEW (4)

1. 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? Submitted to *World Development*.
2. 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. Submitted to *Science of the Total Environment*.
3. Parsons, S., Hayes, W., Pedit, J., Kabwe, G., Yamba, F., Serenje, N., Bailis, R., **Jagger, P.**, and A. Grieshop. Impacts of a cookstove intervention in urban Zambia on cook's personal exposure to carbon monoxide and particulate matter. Under review at *GeoHealth*.
4. Richardson, L., Shrestha, P., Milliken, C., Sills, E.O., Lloyd, S., Nareau, L.C., Scott, S., and **P. Jagger**. Money matters: Does access to financial services foster household energy transitions in Africa? Under review at *Energy Policy*.

GRANTS

- | | |
|------|--|
| 2022 | Co-Investigator, National Institutes of Health (NIH), National Institute on Aging, Developing Infrastructure for the Longitudinal Study of Health and Ageing in Kenya (LOSHAK) (\$338,599 USD) |
| 2019 | Co-Investigator, National Institutes of Health (NIH), Clean Cooking Implementation Science Network, Fogarty International Center (FIC), <i>Feasibility of Scaling 'Clean Stacking' Options in Southern Africa</i> (\$74,993 USD) |
| 2018 | Co-Investigator, National Geographic Society (NGS), Sustainable Cities Program, <i>Searching for Clean Air and Sustainable Energy Transitions in Yangon, Myanmar</i> (\$83,520 USD) |

- 2018 PI and PIRE Director, 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* (\$4,790,000 USD)
- 2017 PI, National Institutes of Health (NIH), Clean Cooking Implementation Science Network, Fogarty International Center (FIC), *Inyenyeri Rwanda Household Energy System Case Study* (\$20,000 USD)
- 2016 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* (\$1,599,883 USD)
- 2015 PI, United Nations Foundation/Global Alliance for Clean Cookstoves (GACC) *Evaluating Sustained Adoption of Inyenyeri's Improved Stove and Fuel Initiative in Rwanda* (\$255,000 USD)
- 2014 PI, International Social Science Council (ISSC) Transformative Knowledge Network (TKN) Seed Grant, *Forest Use, Energy and Livelihoods Transformative Knowledge Network (FUEL-TKN)* (\$39,000 USD)
- 2014 Co-Investigator, 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* (\$2,640,607 USD)
- 2014 PI, International Initiative for Impact Evaluation (3IE) Climate Change and Disaster Risk Reduction Thematic Window, Proposal Preparation Grants *Evaluating Uganda's REDD+ Program* (\$20,000 USD)
- 2013 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* (\$1,165,000 USD)
- 2012 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* (\$644,986 USD)
- 2012 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* (\$185,289 USD)
- 2010 Co-PI, Research Triangle Institute - University Collaboration Fund (\$14,200 USD)
- 2010 PI, Core Support to FUEL Lab, Center for International Forestry Research (CIFOR) (~\$80,000 USD – over 5 years)
- 2006 PI, Center for International Forestry Research (CIFOR), Poverty Environment Network (PEN) Grant (\$25,000 USD)

HONORS, FELLOWSHIPS, AWARDS

External

- 2024 Wilson Center Fellowship, The Wilson Center, Washington, DC, *Weathering Africa's Climate Traps* (\$90,000 USD)
- 2013 UJMT Fogarty Global Health Fellowship, Fogarty International Center, National Institutes of Health, *Tuberculosis and household air pollution from woody biomass use in Malawi: A Case-Control Study* (\$39,000 USD)

- 2012 National Science Foundation, Political Science Young Scholar's Award (\$25,000 USD)
- 2006 Consultative Group for International Agricultural Research (CGIAR), System-wide Program on Collective Action and Property Rights (CAPRI), PhD Field Research Fellowship (\$29,000 USD)
- 2006 National Science Foundation (NSF), Doctoral Dissertation Enhancement Award (\$12,000 USD)
- 2006 Social Science Research Council (SSRC), International Dissertation Field Research Fellowship (IDRF) (\$10,000 USD)
- 2005 United States Department of Education, Foreign Language and Area Studies (FLAS) Fellowship (Swahili) (\$14,500 USD)
- 2004 Social Science and Humanities Research Council of Canada (SSHRC), Doctoral Fellowship (\$65,000 CDN)
- 2001 Consultative Group for International Agricultural Research (CGIAR) Secretariat, Neville Clarke Award for Outstanding Teamwork, for collaboration on the International Livestock Research Institute (ILRI) – International Food Policy Research Institute (IFPRI)
- 1996 International Development Research Council of Canada (IDRC), Value of Trees Project Award (\$12,000 CDN)

University of Michigan

- 2024 Population Dynamics and Health Program (PHDP) Pilot Grant Award (\$15,000)
- 2023 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) (\$98,500)
- 2021 Population Dynamics and Health Program (PHDP) Pilot Grant Award (\$15,000)
- 2020 Population Dynamics and Health Program (PHDP) New Investigator Faculty Research Mentoring Program (\$15,000)
- 2019 Michigan Road Scholar

University of North Carolina at Chapel Hill

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

Indiana University

- 2008 J. Stewart and Dagmar K. Riley Dissertation Year Fellowship (\$15,000 USD)
- 2008 Workshop in Political Theory and Policy Analysis, Dissertation Fellowship (\$7,500 USD)
- 2004 School of Public and Environmental Affairs (SPEA), Award for Excellence in Doctoral Research (\$500 USD)

INVITED TALKS, CONFERENCE AND WORKSHOP PAPERS

Household Energy Transitions in Rwanda – Will Bioeconomy or Fossil Fuels win Out?

American Association of Geographers Annual Meeting, Denver, CO, 2023

Forests and Livelihoods: Assessment, Research and Engagement (FLARE) 6th Annual Conference, Rome, Italy, 2022

Insights from 10 Years of Energy Access Research in Africa

Keynote Address, Environment for Development Initiative Annual Meeting, Uganda, 2022

Department of Geography, Michigan State University, East Lansing, 2022

Catalyzing Energy Access among the Ultra-Poor in Malawi

Coalition for Cleaner Cooking, Malawi, 2022

Data Science for Health in Africa

Africa Week, University of Michigan, Virtual, 2021.

Overcoming Energy Poverty

Pathways to Clean Cooking 2050: Leaving No-one Behind, Wexford, Ireland, 2019.

Population and Environment Dynamics of Energy Access in Sub-Saharan Africa

4th Open Science Meeting of the Global Land Programme, Bern, Switzerland, 2019.

New Insights on Poverty and Environment

Economic Development Series, University of Michigan, International Policy Center, Ross School's Business, and Economics Department, Ann Arbor, MI, USA 2019

Catalyzing Energy Access among the Ultra-Poor in Malawi

Sustainability and Development Conference, Ann Arbor, MI, USA, 2019

Forests and Livelihoods: Assessment, Research and Engagement (FLARE) 4th Annual Conference, Copenhagen, Denmark, 2018

Household Air Pollution Exposures in Rwanda and Malawi

Sustainable Energy Transitions Initiative (SETI) 3rd Annual Meeting, Duke University, Durham, NC, USA, 2018

Biomass Burning among Small-Scale Fish Processors in Ghana: Implications for Health and Well-Being

Forests and Livelihoods: Assessment, Research and Engagement (FLARE) 5th Annual Conference, Ann Arbor, MI, USA, 2019

Sustainable Energy Transitions Initiative (SETI) 3rd Annual Meeting, Duke University, Durham, NC, USA, 2018

Pre-PAA African Population, Environment, and Health Conference, University of Colorado, Boulder, CO, USA, 2018

Household Air Pollution Exposure and Prevalence of Tuberculosis for Women Living in Urban Malawi

Population Association of America Annual Conference, Denver, CO, USA, 2018

The Population and Environment Dynamics of Energy Access in Sub-Saharan Africa

School of Environment and Sustainability, University of Michigan, USA, 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, Seattle, WA, USA, 2018

Deforestation and Biomass Fuel Dynamics in Uganda

Environment for Development (Efd) Annual Meeting, Addis Ababa, Ethiopia, 2017

Inyenyeri a Social Benefit Company: Transforming Household Energy Systems in Rwanda

Global Alliance for Clean Cookstoves Biannual Forum, Delhi, India, 2017

Insights into Woodfuel Reliance and Human Well-being

Forests and Livelihoods: Assessment, Research and Engagement (FLARE) 3rd Annual Conference, Stockholm, Sweden, 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, USA 2017
- Transforming Household Energy Systems in Rwanda: Early Adopters and Impacts*
 World Congress of Environmental and Resource Economists (WCERE), Gothenburg, Sweden, 2018
 Forests and Livelihoods: Assessment, Research and Engagement (FLARE) 2nd Annual Conference, Edinburgh, Scotland, 2016
- Can Inyenyeri Deliver a Cleaner Energy Solution to Rwanda?*
 Sustainable Energy Transitions Workshop, Duke University, Durham, NC, USA 2016
- Explorations in Mitigating Household Air Pollution Exposure in Sub-Saharan Africa*
 African Studies Center JAMA, Chapel Hill, NC, 2016
 United States Environmental Protection Agency, Durham, NC, 2016
- Using Publicly Available Social and Spatial Data to Quantitatively Assess Social Impacts of REDD+ in Kalimantan*
 International Society of Forest Resource Economics, Raleigh, NC, 2016
- Land Use and Biomass Fuel Dynamics in Malawi*
 Environment for Development (Efd) Annual Meeting, Pucon, Chile, 2016
 Population Association of America Annual Conference, Washington, DC, 2016
- 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*
 Demography Daze, Chapel Hill, NC, USA, 2015
 Baraza Lecture Series, University of Florida, Gainesville, FL, USA, 2015
- New Insights into Biomass Reliance and Human Welfare*
 Environment for Development (Efd) Workshop on Energy Gaps and Transitions, Debre Zeit, Ethiopia, 2015
- What Does Cooking have to do with Climate?*
 UNC Climate Symposium, Chapel Hill, NC, USA, 2015
- Stoves vs. Sugar: Willingness to Adopt Improved Cookstoves in Malawi*
 Engineers in Technical and Humanitarian Opportunities of Service (ETHOS) Conference, Kirkland, WA, USA, 2015
- Does Tenure Mediate Forest Income? Findings from a Global Study on Forests and Livelihoods*
 International Union of Forestry Research Organizations (IUFRO) International Conference, Salt Lake City, UT, USA, 2014
- 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, Research Triangle Park, NC, USA, 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

- International Symposium on the Dynamics of Coupled Natural-Human Systems, Wuhan, China, 2014
- Forest Use, Energy and Livelihoods: Emerging Questions for East and Southern Africa*
Center for International Forestry Research, Lusaka, Zambia, 2014
FAO Sub-regional Office for Southern Africa, Harare, Zimbabwe, 2014
- Willingness to Adopt Improved Cookstoves in Malawi*
Energy for Development (EnDev) Regional Meeting (Keynote), Mulanji, Malawi, 2014
- Sustainability and Welfare Impacts 10 Years After Uganda's Forest Governance Reform*
Central African Forests and Institutions Workshop, UNESCO, Paris, France, 2013
- Land Use Change, Fuel Use and Health Outcomes in Western Uganda*
Population Association of America Annual Meeting, New Orleans, LA, USA, 2013
- Environmental Income and Rural Livelihoods: A Global Comparative Analysis*
North Carolina State University, Raleigh, NC, USA, 2013
- Population, Land Use and Health Dynamics of Biomass Fuel Use in Sub-Saharan Africa*
UNC Flash Seminar, University of North Carolina, NC, USA, 2013
Carolina Population Center, University of North Carolina, NC, USA, 2012
- Taxes and Bribes in Uganda*
Midwestern African Political Economy Group, Duke University, NC, USA, 2012
- Does Tenure Mediate Forest Reliance? Observations from a Global Study on Forests and Poverty*
International Association for Agricultural Economists Triennial Conference, Foz do Iguacu, Brazil, 2012
- Land Use Change, Biomass Consumption and Health Outcomes in Western Uganda*
Population Association of America Annual Meeting, San Francisco, CA, USA, 2012
- Knowing Your (Forest) Rights: Clarity and How It Relates to Harvesting Behavior*
Midwestern African Political Economy Group, Northwestern University, IL, USA, 2011
Workshop on Land Tenure and Forest Carbon Management, Land Tenure Center, University of Wisconsin Madison, USA, 2011
- 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
Exploring the Forest-Poverty Link, New Research Findings, University of East Anglia, Norwich, UK, 2011
- Household Income, Inequality and Poverty Outcomes for Migrant Pit-saw Loggers*
Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA, 2011
Population Association of America Annual Meeting, Washington, DC, USA, 2011
AMA BASIS CRSP Workshop on Policy Oriented Research for Improved Policy Making, 2010
Makerere, University, Kampala, Uganda, 2010
Center for International Forestry Research, Bogor Indonesia, 2010
- A Guide to Learning about Livelihood Impacts of REDD+ Projects*
Assessing Social Impacts in National REDD Programs: Exploring Options, CARE Workshop, London, UK, 2011
CIFOR Seminar, UNFCCC Conference of the Parties (COP) 16, Cancun, Mexico, 2010
- Forest Incomes after Uganda's Forest Sector Reform: Are the Poor Gaining?*
American Association for Agricultural Economics, Pittsburgh, PA, USA, 2011
Curriculum on the Environment and Ecology Seminar Series, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA, 2010

Conference on Institutions, Behavior and the Escape from Persistent Poverty, Cornell University, Ithaca, New York, USA, 2009

What Scope for Collaborative Management Agreements to Improve Environmental Income? The Case of Rwenzori Mountains National Park, Uganda
Department of Public Policy, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA, 2010

Workshop on the Workshop (WOW4), Indiana University, Bloomington, Indiana, USA, 2009

Renegotiated Property Rights and Livelihood Outcomes after Uganda's Forest Sector Reform
12th Biennial Conference of the International Association for the Study of the Commons, Cheltenham, England, 2008

What Should We Really be Asking? A Comparison of Methods for Understanding Rural Livelihoods
Carolina Population Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA, 2010

12th Biennial Conference of the International Association for the Study of the Commons, Cheltenham, England, 2008

Center for International Forestry Research, Poverty Environment Network Workshop, Barcelona, Spain, 2008

Forest Sector Reform and Rural Livelihood Outcomes in Uganda
Michigan State University, East Lansing, Michigan, USA, 2009
University of North Carolina, Chapel Hill, North Carolina, USA, 2008
Queen's University, Kingston, Ontario, Canada, 2008
12th Biennial Conference of the International Association for the Study of the Commons, Cheltenham, England, 2008
Faculty of Forestry and Nature Conservation, Makerere University, Kampala, Uganda, 2008;
Center for International Forestry Research, Bogor, Indonesia, 2008

Livelihoods and Sustainability after Uganda's Forest Sector Reform
Colloquium, Workshop in Political Theory and Policy Analysis, Bloomington, IN, USA 2008
Workshop on Forest Governance and Decentralization in Africa, Durban, South Africa, 2008
Rights and Resources Group, Washington, DC, USA, 2008
Department of Agricultural Economics, Purdue University, West Lafayette, IN, USA, 2008

Negotiating Rights after Uganda's Forest Sector Governance Reform
11th Biennial Conference of the International Association for the Study of Common Property, Bali, Indonesia, 2006

Bureaucratic Incentives and Decentralizing Forest Management: A Preliminary Test of Hypotheses
Annual Meeting of the Midwest Political Science Association, Chicago, IL, USA, 2006
Annual Meeting of the African Studies Association, Washington, DC, USA, 2005

Decentralization Reforms and Forests in Sub-Saharan Africa: Implications for Equity
Annual Meeting of the African Studies Association, New Orleans, LA, USA, 2004

Equity and Accessibility of Rural Public Services: A Comparative Institutional Analysis of Local Governance in Brazil and Uganda
Annual Meeting of the American Political Science Association, Chicago, IL, USA, 2004

Woodlot Devolution in Northern Ethiopia: Opportunities for Empowerment, Smallholder Income Diversification and Sustainable Land Management
International Conference on Rural Livelihoods, Forests and Biodiversity, Bonn, Germany 2003

Motivating Smallholder Investment in Sustainable Land Management: Emerging Roles for NGOs and CBOs in Uganda

International Symposium on Society and Natural Resources, Bloomington, IN, USA, 2002

Regional Conference for Policies for Sustainable Land Management in the East African Highlands, United Nations Economic Commission for Africa, Ethiopia, 2002

Workshop on Improved Policies for Sustainable Land Management, Uganda, 2002

Community and Private Tree Planting for Sustainable Land Management and Improving Rural Livelihoods in Tigray, Ethiopia – Understanding the Trade-offs

Regional Workshop on Sustainable Land Management Policies in the Highlands of Tigray, Ethiopia, 2002

Evolving Roles for Programs and Organizations: Promoting Sustainable Land Management in Rural Uganda

Policies for Improved Land Management in Uganda Policy Workshop, Uganda, 2001

The Role of Trees for Sustainable Management of Less Favored Lands: The Case of Eucalyptus in Ethiopia

International Conference on Land Management, Danbury Park, Essex, UK, 2001

Seminar on Policies for Sustainable Land Management in the Ethiopian Highlands,

International Livestock Research Institute, Ethiopia, 2000

Markets, Marketing and Production – Issues for Aquaculture in Sub-Saharan Africa: The Case of Uganda

Annual Meeting of the International Institute of Fisheries Economics and Trade, Corvallis, OR, USA, 2000

El Niño, Ice Storms and the Market for Residential Fuel Wood in Eastern Canada and the Northeastern US

Resources for the Future, Washington, DC, USA, 1999

TEACHING AND ADVISING

POSTDOCTORAL ADVISING

Dr. Jafor Ahmed (UM) (2024 – present) *Building a Locally Informed and Sustainable Monitoring Platform Characterizing Vulnerabilities to Climate Risk: Climate, Health, and Environment Surveillance System for Bangladesh (CHESS-B)*

Dr. Cheryl Weyant (UM) (2020 – 2023) *Energy Poverty PIRE in Southern Africa*

Dr. Ther Aung UNC-CH (2017 – 2020) *Energy Transitions and Environmental Change in East and Southern Africa's Coupled Human, Terrestrial, and Atmospheric Systems*

Dr. Pushpendra Rana UNC-CH (2013-2014) *Exploring Methods for Integration of Social and Spatial Data to Evaluate REDD+ Social Safeguards*

GRADUATE COURSES (UM)

EAS 741 (UM) – Research Paradigms – 2024; 2023; 2022; 2021

EAS 514 (UM) – Foundations for Sustainability and Development - 2023; 2022; 2021

EAS 582 (UM) – Program Evaluation for Sustainability and Development - 2023; 2021; 2020; 2019

EAS 677 (UM) – Poverty and Environment Dynamics - 2021

GRADUATE COURSES (UNC-CH)

PLCY 717 (UNC-CH) – Institutional Analysis for Public Policy - 2018; 2017; 2015; 2013; 2012

UNDERGRADUATE COURSES (UM)

ENVIRON 462 – Food Policy - 2023; 2022; 2021

UNDERGRADUATE COURSES (UNC-CH)

PLCY 89 – Energy Poverty - 2018

PLCY/ENEC 520 – Environment and Development - 2012; 2010

PLCY/ENEC 475 – Political Economy of Food - 2016; 2015; 2011; 2010

PLCY 691/691H – Research Design for Public Policy – 2010; 2011; 2012

UM GRADUATE ADVISING

Congyi Dai (Expected 2027) (PhD, Advisor)

Nabin Pradhan (Expected 2025) (PhD, Committee Member)

Andrea Mahieu (2024) (MS)

Charlie Lindsey (2022) (MS/MPP)

Caleb Milliken (2022) (MS)

Josh Thompson (2022) (MS)

Shannon Lloyd (2021) (MS)

Wakoko Kobayashi (2020) (MS)

UM UNDERGRADUATE ADVISING

Conner Harwood (2020), Energy Institute and Undergraduate Research Opportunities Program (UROP)

Olivia Howard (2020), Undergraduate Research Opportunities Program (UROP)

Winston (Xian) Wu (2021), Undergraduate Research Opportunities Program (UROP)

UNC-CH GRADUATE ADVISING (IN PROCESS)

Prabisha Shrestha – PhD Geography, Committee

UNC-CH GRADUATE ADVISING (COMPLETED)

Daniel Han – PhD Public Policy, Committee (2024) *Building Subnational Climate and Energy Policies on Household Energy Behaviors*

Mark Radin – PhD Environmental Sciences and Engineering, Committee (2024) *Understanding the Costs and Benefits of Community-led Total Sanitation in Eliminating Open Defecation*

Sandeep Kandicuppa – PhD Environment, Ecology and Energy Program, Committee (2021) *Rural Indebtedness in India: Dimensions, Causes and Perceptions*

Averi Chakrabarti – PhD Public Policy, Committee (2019) *Three Essays on Child Wellbeing in Developing Countries*

Ipsita Das – PhD Public Policy, **Advisor** (2018) *Bargaining Power, Social Capital and Environmental Health*

Maia Call – PhD Geography, Committee (2017) *Rural Livelihoods and Environmental Change in Uganda*

Sam Sellers – PhD Curriculum for Environment and Ecology, **Advisor** (2017) *Three Essays on Population, Health, and Environmental Linkages: Evidence from South America, Sub-Saharan Africa, and Southeast Asia*

Qi Zhang – PhD Geography, Committee (2017) *Social-ecological Impacts of China's Payments for Ecosystem Services Program on Land Use, Migration, and Livelihoods*

Sierra Woodruff – PhD Environment and Ecology, Committee (2017) *Local Climate Adaptation in the United States*

- Carolyn Huang – PhD Public Policy, Committee (2015) *Sub-Saharan African Social and Health Policies of the Poor: Essays Examining Impacts of Public Program on Mental Health Utilization, Children's Health, and Household Consumption*
- Ashley Chaifetz – PhD Public Policy, **Advisor** (2015) *The Food Safety Policy Gap: Essays on Emergency Food in North Carolina*
- Kim Engie – PhD Geography, Committee (2015) *Adaptation and Shifting Livelihoods in the Small-Scale Fisheries of the Galapagos Marine Reserve, Ecuador*
- Susan Caplow – PhD Curriculum for the Environment and Ecology, **Advisor** (2014) *The Communication of Values, Beliefs, and Norms in Live Animal Interpretive Experiences: A Comparative Case Study*
- Esther Giezendanner – MPH Nutrition, Committee (2014) *Exploring the Nutrition-Household Air Pollution Nexus in Rural Malawi*
- Jason Bremner – PhD City and Regional Planning, Committee (2013) *Population Mobility and Livelihood Diversification among Indigenous Peoples of the Ecuadorian Amazon*
- Brian Miller – PhD Curriculum for Environment and Ecology, Committee (2013) *Linking conservation goals and outcomes: The social-ecological dynamics of drought resource management in East Africa*

GRADUATE ADVISING – OTHER INSTITUTIONS (COMPLETED)

- Natasha James – PhD Forestry and Environmental Resources (NCSU), Committee (2018) *Costa Rica's Payments for Ecosystem Services Program: Understanding the Implications of Targeting Mechanisms and Procurement Auctions on Cost Effectiveness and Equity of Participation*
- Mutekwa Vurayai – PhD Faculty of Science (Rhodes University), External (2017) *Forest Governance, Conservation and Livelihoods: The Case of Protected Forests and Forest-Adjacent Communities in Northwestern Zimbabwe*
- George Omiat – PhD Agricultural Economics (Purdue University), Committee (2016) *Economic Development and Child Nutrition in Uganda*
- Christopher Galik – PhD Forestry and Environmental Resources (NCSU), Committee (2014) *Institutional Design and Decision-Maker Response: An Investigation of Environmental Policy and Research*
- Hiwot Menker Girma – PhD Environmental Economics (University of Pretoria), External (2014) *Drivers of Land Use Change and Forest Conservation under Uncertain Markets for Forest Ecosystem Services in Ethiopia*
- Timothy Smith – M.Sc. Agricultural Economics (Purdue University), Committee (2014) *Understanding Childhood Nutrition in Nepal: A Hierarchical Regression Approach*
- Sarah Wiener – M.Sc. Forestry and Environmental Resources (NCSU), Committee (2014) *Traditional Natural Resource Use and Modern Lifestyles in the Post-Apartheid Era: Age and Attitudinal Changes in Bushbuckridge, South Africa*
- Braden Ramage – M.Sc. Forestry and Environmental Resources (NCSU), Committee (2013) *The Livelihood Impacts of Plantation Forestry in Mozambique*

UNC-CH UNDERGRADUATE HONORS THESES (ADVISOR)

- Alexandra Huber – Honors Public Policy (2017) – *Assessing the Financial Sustainability of Small-Scale Farms in North Carolina*
- Samantha Night – Honors Public Policy (2016) *Measuring the Right to Food: A U.S. Policy Perspective*

- Sangeetha Kumar – Honors Environmental Science (2015) *Determinants of Exposure to Household Air Pollution in Rural Malawi*
- Morgan Abbott – Honors Public Policy (2012) *The Impact of the Hague Convention on Protection of Children and Co-Operation in Respect of Inter-country Adoption as a Policy Intervention on Legal Adoption in Sub-Saharan Africa*
- Eva Archer – Honors Global Studies (2012) *A Comparison of Multi-lateral and Local NGO Approaches to Agricultural Development in Cambodia*
- Anna Gage – Honors Public Policy (2012) *Kids for Kids: HIV/AIDS and Microfinance Initiatives in Northern Uganda*
- Justin Loiseau – Highest Honors Environmental Studies, Best Thesis Award (2012) *Effect of Development Classifications on Environmental Aid*
- Vanessa Fixmer Oraiz – Honors Environmental Studies (2011) *Bamboo in the Philippines: A Study of the Cultural Implications of Climate Change Mitigation and Adaptation Strategies*
- Samantha Surles – Highest Honors Public Policy, Best Thesis Award (2011) *A Comparison of County-level Allocations of Emergency Management Performance Grants (EPMGs) in North Carolina and Virginia*
- Elinor Benami – Honors Economics (2010) *An Empirical Analysis of Sustainable Energy Portfolio Standard Effectiveness*

PROFESSIONAL SERVICE (EXTERNAL)

- 2023 NIH Steering Committee on Climate and Health, Center for Global Health Studies, Fogarty International Center
- 2023 – 2024 United States Department of State, Air Quality Fellows Program, Providing technical support to U.S. Embassy in Chad
- 2022 – Forest and Livelihoods: Assessment, Research and Engagement (FLARE) Conference Coordination Committee
- 2021 – 2022 Clean Cooking Implementation Science Network Science to Policy Academy, Malawi Team Mentor
- 2020 – Environment for Development (EfD) Initiative, Research Advisory Committee
- 2018 – Environment for Development (EfD) Initiative, Women in Environmental Economics for Development Steering Committee
- 2019 – 2021 IUFRO Global Forest Expert Panel (GFEP) on Forests and Poverty
- 2019 – 2022 Editor in Chief, *World Development Perspectives*
- 2018 – Associate Editor, *Environment and Development Economics*
- 2018 – Review Editor Board, *EcoHealth*
- 2017 – 2019 Associate Editor, *BMJ Public Health*, Health policies, systems and management in low and middle-income countries section
- 2017 – Clean Cooking Implementation Science Network (NIH, USAID, CDC and Clean Cooking Alliance)
- 2016 – 2020 Guest Editor, *Environmental Research Letters*, Focus Collection, Environmental Implications of Household Energy Transitions in the Global South (with Rob Bailis and Subhrendu Pattanayak)
- 2014 – Editorial Board, *World Development*
- 2014 – 2016 Elected Member, ISO Technical Working Group 4 on Social Impacts of Clean Cookstoves
- 2011 – 2013 Section Leader, International Development, Agriculture and Applied Economics Association

JOURNAL REVIEWER

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; 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; Population and Environment; Proceedings of the National Academy of Science; Regulation and Governance; Society and Natural Resources; World Development

GRANT REVIEWER

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

2022 Economy and Environment Partnership for Southeast Asia (EEPSEA), Department of Economics, University of Economics, Ho Chi Minh City
2018 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

PROFESSIONAL ASSOCIATIONS

Agriculture and Applied Economics Association
International Association for the Study of the Commons
Population Association of America

UNIVERSITY SERVICE

UNIVERSITY OF MICHIGAN

2023 Institute for Energy Solutions Fellow
2021 – 2024 Sustainability and Development Specialization Lead (SEAS)
2023 – 2025 School for Environment and Sustainability (SEAS) Executive Committee (Elected)
2019 – 2021 School for Environment and Sustainability (SEAS) Executive Committee (Elected)
2019 – 2022 African Studies Center Executive Committee (Elected)
2018 – 2022 African Social Research Initiative (ASRI) Steering Committee
2018 – 2020 African STEM Initiative Steering Committee
2018 – 2023 School for Environment and Sustainability (SEAS) Doctoral Admissions Committee

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

2017 – 2018 Carolina Population Center (CPC) Advisory Council

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