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EDUCATION

- 2009 Ph.D. 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 M.Sc. Forest Economics, University of Alberta
- 1994 B.A. Economics, University of Alberta

ACADEMIC APPOINTMENTS

- 2015 – Associate Professor, Public Policy, University of North Carolina at Chapel Hill
- 2010 – 2015 Assistant Professor, Public Policy, University of North Carolina at Chapel Hill
- 2017 – Adjunct Associate Professor. Geography, University of North Carolina at Chapel Hill
- 2010 – Faculty, Curriculum for the Environment and Ecology, University of North Carolina at Chapel Hill
- 2009 Postdoctoral Research Fellow, Department of Agricultural Economics, Purdue University

OTHER APPOINTMENTS

- 2010 – Faculty Fellow, Carolina Population Center, University of North Carolina at Chapel Hill
- 2010 – Faculty Fellow, Center for Urban and Regional Studies, University of North Carolina at Chapel Hill
- 2009 – 2015 Senior Associate, Center for International Forestry Research, Bogor, Indonesia

ADDITIONAL PROFESSIONAL EXPERIENCE

- 2006 – 2007 Visiting Researcher, Makerere University, Kampala, Uganda
- 2003 – 2006 Research Assistant, Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington, IN, USA
- 2004 Visiting Researcher, International Food Policy Research Institute (IFPRI), Environment and Production Technology Division, Washington, DC, USA
- 1999 – 2003 Research Analyst, International Food Policy Research Institute (IFPRI), Environment and Production Technology Division, Washington, DC, USA
- 1998 – 1999 Research Assistant, Resources for the Future (RFF), Energy and Natural Resources Division, Washington, DC, USA
- 1998 Consultant, World Bank, Development Working Group, Washington, DC, USA
- 1998 Research Assistant, Department of Rural Economy, University of Alberta, Edmonton, AB, Canada

- 1997 Research Associate, Institute for Environmental Studies (IES), University of Zimbabwe, Harare, Zimbabwe
- 1996 – 1998 Economic Research Technician, Canadian Forest Service, Social Science Research Group, Edmonton, AB, Canada

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

PEER REVIEWED ARTICLES (36)

- 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.
- Call, M.‡ and **P. Jagger**. 2017. [Social Capital, Collective Action and Communal Grazing Lands in Uganda](#). *International Journal of the Commons*. Forthcoming.
- 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‡ 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*. Forthcoming.
- 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. Bilborrow. 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): 349-365.

REFEREED BOOKS CHAPTERS (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

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.

NON-REFEREED BOOK CHAPTERS (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.

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.

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 (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.

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.

OTHER PUBLICATIONS (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.

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.

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.

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.

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 (5)

Das, I.[‡], **P. Jagger**, S. Handa and J. Pedit. Household air pollution, microenvironment and child health: Strategies for mitigating HAP exposure in urban Rwanda. Revised and resubmitted to *Environmental Research Letters*.

Jagger, P., I. Das.[‡], S. Handa, L. Nylander-French, and K. Yeatts. Early Adoption of an Improved Household Energy System in Urban Rwanda. Submitted to *EcoHealth*.

Jagger, P., S. Sellers[‡], N. Kittner[‡], I. Das[‡], and G. Bush. Medium-Term Impacts of Community Management Agreements in Uganda's Rwenzori Mountains National Park. In review at *Ecological Economics*.

Seguin, R. †, V. Flax and **P. Jagger**. Barriers and Facilitators to Adoption and Use of Improved cookstoves and Fuel Pellets in Urban Rwanda. Submitted to *Global Health: Science and Practice*.

Treacy, P. †, **P. Jagger**, C. Song, Q. Zhang †, and R.E. Bilborrow. Impacts of China's Conversion of Cropland to Forest Program on Migration and Household Income. Revised and resubmitted to *Environmental Management*.

SELECTED WORKING PAPERS (6)

Giezendanner, E. †, **P. Jagger**, C. Jumbes † and V. Flax. Exploring the Household Air Pollution and Nutrition Nexus in Malawi.

Jagger, P., A. Angelsen, N. Hogarth, and S. Wunder. Woodfuel Reliance and Human Well-Being: Insights from a Global Study on Poverty and Environment.

Jagger, P. and I. Das †. Household Energy Transformation in Rwanda: Potentials and Challenges for Inyenyeri a Sustainable Biomass Pellet and Improved Cookstove Enterprise.

Jagger, P., I. Hoffman, A. Gallerani †, J. Pedit, and S. Phiri †. Household Air Pollution Exposure and Prevalence of Tuberculosis in Women Living in Urban Malawi.

Pedit, J., A. Amoah †, T. Aung †, A. Bittner †, I. Das †, Z. Frothing †, S. Handa, L. Nylander-French, K. Yeatts, and **P. Jagger**. Personal and Area Cooking Exposure to CO and PM_{2.5} in African Households.

Wiener, S. †, E.O. Sills, W. Twine and **P. Jagger**. Inter-generational Dimensions of Household Energy in Rural South Africa.

GRANTS

- 2017 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 Institute 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

- 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), Ph.D. 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 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)

- 2010 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

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, 2017

Transforming Household Energy Systems in Rwanda: Early Adopters and Impacts

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, 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. Ther Aung, UNC-CH (2017 – Present) *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

PLCY 717 – Institutional Analysis for Public Policy

2017 (14 students); 2015 (19 students); 2013 (11 students); 2012 (13 students)

UNDERGRADUATE COURSES

PLCY 89 – Energy Poverty

2018 (24 students)

PLCY/ENEC 520 – Environment and Development

2012 (34 students); 2010 (32 students)

PLCY/ENEC 475 – Political Economy of Food

2016 (45 students); 2015 (28 students); 2011 (45 students); 2010 (32 students)

PLCY 691/691H – Research Design for Public Policy

(16 students, 4 Honors)

GRADUATE ADVISING (COMPLETED)

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

Sam Sellers – Ph.D. 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 – Ph.D. Geography, Committee (2017) *Social-ecological Impacts of China's Payments for Ecosystem Services Program on Land Use, Migration, and Livelihoods*

Sierra Woodruff – Ph.D. Environment and Ecology (UNC-CH), Committee (2017) *Local Climate Adaptation in the United States*

Mutekwa Vurayai – Ph.D. Faculty of Science (Rhodes University), External (2017) *Forest Governance, Conservation and Livelihoods: The Case of Protected Forests and Forest-Adjacent Communities in North-Western Zimbabwe*

George Omiat – Ph.D. Agricultural Economics (Purdue University), Committee (2016) *Economic Development and Child Nutrition in Uganda*

Carolyn Huang – Ph.D. Public Policy (UNC-CH), 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 – Ph.D. Public Policy (UNC-CH), **Advisor** (2015) *The Food Safety Policy Gap: Essays on Emergency Food in North Carolina*

Kim Engie – Ph.D. Geography (UNC-CH), Committee (2015) *Adaptation and Shifting Livelihoods in the Small-Scale Fisheries of the Galapagos Marine Reserve, Ecuador*

Susan Caplow – Ph.D. Curriculum for the Environment and Ecology (UNC-CH), **Advisor** (2014) *The Communication of Values, Beliefs, and Norms in Live Animal Interpretive Experiences: A Comparative Case Study*

Christopher Galik – Ph.D. Forestry and Environmental Resources (NCSU), Committee (2014) *Institutional Design and Decision-Maker Response: An Investigation of Environmental Policy and Research*

Esther Giezendanner – M.P.H. Nutrition (UNC-CH), Committee (2014) *Exploring the Nutrition-Household Air Pollution Nexus in Rural Malawi*

Hiwot Menker Girma – Ph.D. 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*

Jason Bremner – Ph.D. City and Regional Planning (UNC-CH), Committee (2013) *Population Mobility and Livelihood Diversification among Indigenous Peoples of the Ecuadorian Amazon*

Brian Miller – Ph.D. Curriculum for Environment and Ecology (UNC-CH), Committee (2013) *Linking conservation goals and outcomes: The social-ecological dynamics of drought resource management in East Africa*

Braden Ramage – M.Sc. Forestry and Environmental Resources (NCSU), Committee (2013) *The Livelihood Impacts of Plantation Forestry in Mozambique*

GRADUATE ADVISING (IN PROCESS)

Ipsita Das – Ph.D. Public Policy, **Advisor**

Natasha James – Ph.D. Forestry and Environmental Resources (NCSU), Committee

Sandeep Kandikuppa – Ph.D. Curriculum for Environment and Ecology, **Advisor**

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)

- 2017 – Review Editor Board, *EcoHealth*
- 2017 – Associate Editor, *BMC Public Health*, Health policies, systems and management in low and middle-income countries section
- 2017 – Clean Cooking Implementation Science Network (NIH, USAID, CDC and Global Alliance for Clean Cookstoves)
- 2016 – 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 Advisory Board, *World Development*
- 2014 – 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; PLOS One; Population and Environment; Regulation and Governance; Society and Natural Resources; World Development

GRANT REVIEWER

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)

PROFESSIONAL ASSOCIATIONS

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

UNIVERSITY SERVICE (UNC-CH)

- 2017 – 2022 Carolina Population Center (CPC) Advisory Council
- 2015 – 2020 Advisory Board, African Studies Center
- 2012 – Convener Carolina Climate Change Scientists
- 2017 – 2019 Faculty Grievance Committee (Elected)

2016 – Advisory Committee, International Student and Scholar Experience
2015 – Advisory Committee, Graduate Certificate in Natural Hazards Resilience
2014 – 2017 Director of Graduate Admissions, Department of Public Policy
2014 – 2016 Faculty Grievance Committee (Elected)
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