

**ALEXANDER ('ALEX') PFAFF**

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**Employment**

2007-	DUKE UNIVERSITY	Sanford School of Public Policy	<i>Professor (2013-)</i>
2005-2007	COLUMBIA UNIVERSITY	The Earth Institute	<i>Exec. Director, CGSD</i>
1995-2005	COLUMBIA UNIVERSITY	SIPA & Economics Department	<i>Asst. &amp; Assoc.(01-05) Prof.</i>

**Education**

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 1995 Ph.D. Economics

“The Economics of Deforestation: Evidence from the Brazilian Amazon and New England”

Advisors: Richard Schmalensee, Robert Solow, Robert Stavins, Abhijit Banerjee, James Poterba

Languages: Portuguese (once reasonable), Spanish (at times growing), French (really vanishing)

YALE UNIVERSITY 1988 B.A. Applied Math & Economics Phi Beta Kappa, summa cum laude

**Service & Outreach**

2024-	Invited member of the Research Advisory Council for the Centre for Wildlife Studies in India.
2023-	Invited member of the IUCN World Commission on Protected Areas’s ‘PADDD Task Force’.
2023-	Invited member of the Economics Advisory Committee for the Conservation Strategy Fund.
2021-	International Advisory Board for ‘Biota Synthesis’, Sao Paulo university-government nucleus.
2021-2022	Jointly organizing workshops on small-scale gold mining with US Dep’t of State & Pure Earth.
2020-2020	IPBES Transformational Change Assessment, invited expert within a scoping of this mandate.
2018-2022	Joint efforts with Conservation International for analyses using large data sets on conservation.
2018-2019	World Bank report describing environmental risks from China’s Belt & Road Initiative (BRI).
2017-2019	IPBES Global Assessment, invited to be Co-Coordinating Lead Author for ‘Drivers’ chapter.
2017-2019	Meridian Institute - Moore Foundation working group reports on impacts of market standards.
2015-2018	Advisory Board, The Mata Atlantica Biome Restoration Project, with study of ecopayments.
2014-2018	Supporting Investigator on a Mercy Corps evaluation of Amazon initiatives on deforestation.
2010-2013	InterAmerican Development Bank consultations on Latin American forest conservation policy.
2010-2013	World Bank consultations concerning policy, the environment and the use of natural resources.
2005-2011	National Academies (NAS / NRC) Committee on the Human Dimensions of Global Change.
2004-2007	NASA SEDAC (Socioeconomic Data / Applications Center), CIESIN User Working Group.
2004-2007	NCEAS (National Center for Ecological Analysis and Synthesis), Scientific Advisory Board.
2003-2005	Land Planning Team to integrate LUCC (soc.science) with GCTE (nat.science) land research.

## Editing/Reviewing

Program committee contributor for AERE and EAERE (Summer, World), repeated guest editor for PNAS, reviewer for many journals in economics (e.g., AER, ReStat, ...), environment (e.g., JAERE, JEEM, REEP, ERE, Land Economics, PNAS, GEC, ...) and also development (e.g., JDE, World Development, EDE, ...).

## **Advising**

- Postdocs Tobias Vorlauffer, Patricia Ruggiero, Derya Keles, Julien Wolfersberger, Valerie Mueller, Florence Kondylis, Darby Jack, Harounan Kazianga, Maria Alejandra Velez, Miguel Fonseca, Juan Robalino, Ariaster Chimeli
- PhD Students Chrissie Pantoja, Ting Zhou, Alejandro Diaz Herrera, Can Hu, Camilo de Los Rios, Danny Tobin, Paula Sarmiento, Seth Morgan, Patricia Ruggiero, Derya Keles, Maria Carnovale, David Kaczan, Luz Angela Rodriguez, Diego Herrera Garcia, Soumya Balasubramanya, Lucas Joppa, Dalia Amor Conde, Juan Robalino, Renzo Taddei -- and committees at Duke and other universities (in multiple disciplines (economics, statistics, ecology)) plus visitors.
- PhD Programs Director for UPEP (University Program in Envir. Policy) and Public Policy PhDs at Duke, & Social Science Advisor for EEEB (Ecology, Evolution & Enviro. Biology) at Columbia.
- MA Students Tasha Griffiths, Ana Gargollo Garcia, Chrissie Pantoja, Zhenhua Wang, Myra Parsonnet, Kimberly Myers, Shivangi Jain, Brian Dalluge, Carlos Sabatino, Anthony Piacenza, Laurel Pegorsch, Yousef Majzoub, Luna Yang, Luiza Andrade, Stephanie Brown, Morgan Capilla, Jimena Rica Straffon, Stephanie Panlasigui, Andrew Knutson, Emily Petersen, Francisco Santiago-Avila, Theo Gimenez, Abbie Turiansky, Akiko Haruna, Deepak Kumar, Nicholas Hurwit, Cesar Delgado, Mayumi Kawaii, Benjamin Harris, Alisa Opar, Amy Schoenfeld
- BA Students Charlie Daniel, Ashlyn Karan, Zachary West, Matthew Isanuk, Krishna Rao, Howard Nye, Daniel Prager, John Lee, Ankur Kapoor, Dorothy Hwang, Stephan Whitaker
- BA Programs BA advisor in Economics, Columbia Univ., including original joint major on environment

## **Teaching**

### DUKE UNIVERSITY

Microeconomics of Public Policy (PPS303 / PPS810, 1<sup>st</sup> core economics course in Public Policy BA/MPP)

Microeconomics of Public Sector (PPS304 / PPS811, 2<sup>nd</sup> core economics course in Public Policy BA/MPP)

Advanced Microeconomics for Policy (PPS818, introductory game theory for Public Policy Studies MPP)

Political Economy I & II (PPS901 & 902, required core courses in Public Policy and Envir. Policy PhDs)

Economic Evaluation of Sustainable Development (PPS574/ENV572)

Collective Action (PPS579S/ENV579S)

### COLUMBIA UNIVERSITY

Environmental Economics: W4625 (BA,MA); ENVBN0353 (midcareer); G6450 (Economics PhD).

Economics of Sustainable Development: W4329 (Economics BA, SIPA MA, non-economics PhD).

Management and Development of Water Systems: W4100, co-taught (Engineering BS, SIPA MA).

Environmental Policy Workshop (team course with clients): U8905 (SIPA MA), U9232 (SIPA MA).

Microeconomics and Macroeconomics (SIPA MA): U4603 (1 semester); U4595/U4596 (2 semesters) and proposed a significant revamping of this curriculum which was implemented the following year.

**Refereed Research** (newest to oldest) [\* = a lead author] {alexpfaff.com categorizes by topic, method, country and year}

Presented Working Papers (alphabetical by first author's last name)

Carnovale\*, M., D. Kaczan\*, A. Pfaff\*, J. Proville and T. Sterner. "Stacking's Impacts on Ecoservices and Costs: comparing payments to offsets for varied settings".

Carnovale, M., F. Mayer and A. Pfaff. "Who Gets the Surplus in Global Value Chains: development policy implications of value-chain governance".

Chaudhuri\*, S. and A. Pfaff\*. "Fuel-choice and indoor air quality: a household-level perspective on economic growth and the environment".

Conde\*, D. and A. Pfaff\*. "Sequenced Road Investments and Clearing of the Mayan Forest".

Delgado\*, C., D. A. Conde, J. O. Sexton, F. Colchero, J.J. Swensen and A. Pfaff. "Deforestation dynamics in response to the evolution of the Western Amazonian Inter-Oceanic Highway".

Gimenez\*, T., A. Pfaff\*, R. Rasolofoson and L. Joppa. "Rigorous Evidence for Scaling Up Conservation Impact in Madagascar".

Hu\*, C., A. Pfaff, and W. He. "Forest Loss From Considerable High-Speed Rail in China? Little impact from operations, yes some from construction".

Herrera\*, D. and A. Pfaff. "Impacts of Brazilian Amazon protected areas on human migration: exploring a private mechanism for spatial deforestation spillovers from forest conservation".

Herrera\*, D. and A. Pfaff. "Impacts of Brazilian Amazon protected areas on road building: exploring a public mechanism for spatial deforestation spillovers from forest conservation".

Le Velly\*, G., P. Delacote, R. Golden Kroner, D. Keles and A. Pfaff. "Do elections drive conservation policies in the US?".

Mueller\*, V., A. Pfaff\*, K. Broad, J. Hercio, H. Kazianga and R. Taddei. "Drought's Impacts in Irrigated Rural Northeast Brazil"

Pantoja\* C., W. Pan and A. Pfaff. "Forest Health Raises Downstream Health: evidence for climate resilience from Peru (given exceptional health data over time)".

Pfaff\*, A. M.A. Velez\*, K. Broad and R. Taddei. "Learning & Equity under Asymmetric Information: repeated allocation within a bargaining institution".

Pfaff\*, A., M.A. Velez\* and D.M. Quintero Gallego. "Strategic Use of Weather & Climate Uncertainty: bargaining power from not having information?".

Pfaff\*, A. and M.A. Velez\*. "Repetition versus Institution in Resource Reallocation: dynamics after 'first impressions' shape efficiency and equity".

Pfaff\*, A., E. Araujo, J. Borner, M. Carnovale, O. Coomes, C. Delgado, B. Fisher, L. Glew, M. Holland, M. Mascia, C. Nolte, C. Palmer, L. Rodriguez, E. Sills, S. Schwartzman and J. Virdin. “Supporting Equity while Saving Ecosystems: *de jure – de facto* rights tradeoffs in development” .

Pfaff\*, A., D. Kaczan and E. Sills. “Public-private interactions and environmental governance of cross-border supply chains” .

Diaz-Herrera\*, A., A. Pfaff\*, L.A. Rodriguez\*, M. Cardenas-Lopez, J.D. Saldana, E. Shapiro-Garza, and B. Zazala-Lopez. “A Novel Federal Subsidy For Creating Local Ecoservices Institutions: learning from Mexico’s policy to match funds for local PES mechanisms”.

Ruggiero\*, P.G.C., P.C. Pereda, and A. Pfaff. “Heterogeneity in Credit’s Impacts on Forest: contexts shifted the size, and even the size, for agricultural and livestock credit”.

Tobin\*, D., A. Pfaff, D. Monroy et al. “Capital Can Increase Income & Eliminate Exposure to Mercury From Mining: artisanal *jancheras*’ prospects from selling ore to non-mercury processing plants”.

Tobin, D., A. Pfaff, A. Kiefer, C. De Los Rios. W. Pan, et al. “Explaining Non-Adoption Of Sustainable Artisanal Gold Mining Methods Or Technologies in South America”

Tobin, D., K. Karanth, D. Miryam, A. Pfaff et al. “Heterogeneous Preferences for Agroforestry in South India: Implications for Program Adoption, Sapling Survival, Multi-Outcome Impacts, and Scaling”.

#### Submitted Working Papers (alphabetical by first author’s last name)

Costedoat\*, S., A. Pfaff. B. Coutinho, and M.B. Mascia. “Cost-effective climate mitigation via conservation incentives targeting poverty: Bolsa Verde’s impact in Brazilian Amazonia settlements”.

Eisenbarth, S., M. Fonseca and A. Pfaff. “Are the impacts of external environmental interventions shifted by pre-existing informal and formal institutions?”.

Le Velly\*, G., P. Delacote, R. Golden Kroner, D. Keles and A. Pfaff. “Political Economy of Protected-Area Downgrading & Downsizing in the United States”.

Morgan\*, S., M. Puri, D. Mariyam, K.K. Karanth, and A. Pfaff “Targeting Forest Restoration in Densely Populated Landscapes: farmers’ interactions affect optimal facilitation of tree planting in India”.

Rico-Straffon\*, J., Z. Wang, C. Loucks, and A. Pfaff. “Do Logging Concessions & Certifications Consistently Affect Forest Disturbance? multiple outcomes in each of the key timber regions within the Peruvian Amazon”

Rico-Straffon\*, J., Z. Wang and A. Pfaff. “Comparing Types of Protection within the Peruvian Amazon: can multiple-use PAs better protect forests, along with livelihoods?”.

Velez\*, M.A., X. Rueda\*, J.P. Henao, D. Tobin, J. Maldonado and A. Pfaff. “Colombian Small-Scale Gold Miners’ Views About Formalization: considering a step towards ‘sustainable’ supply chains”.

#### Publications (reverse chronological order)

- Losos, L., A. Pfaff, and S.L. Pimm (2024). "Tackling Debt, Biodiversity Loss, and Climate Change". *Science* (May 9, 2024) <https://doi.org/10.1126/science.ado7418>
- Gill\*, D., S. Lester, C. Free, A. Pfaff et al. (2024). "Multiple-use marine protected areas can achieve the same global conservation with greater resource justice A diverse portfolio of marine protected areas can better advance global conservation and equity ". *Proceedings of the National Academy of Sciences (PNAS)*, 121(10) (<https://doi.org/10.1073/pnas.2313205121>)
- Blanco, E., L. Moros, A. Pfaff, I. Steinmanis, M.A. Velez, B. Vollan (2023). "No crowding out among those terminated from an ongoing PES program in Colombia". *Journal of Environmental Economics and Management* 120 (<https://doi.org/10.1016/j.jeem.2023.102826>)
- Rico-Straffon\*, J., Z. Wang, S. Panlasigui, C.J. Loucks, J. Swenson and A. Pfaff (2023). "Forest Concessions & Eco-Certification in the Peruvian Amazon: deforestation impacts of logging rights & restrictions". *Journal of Environmental Economics and Management* 118 (March 2023, 102780) (<https://doi.org/10.1016/j.jeem.2022.102780>)
- Moros\*, L., M.A. Velez\*, D.M. Quintero, D. Tobin, and A. Pfaff (2023). "Temporary PES Do Not Crowd Out & May Crowd In Lab-in-the-field Forest Conservation in Colombia". *Ecological Economics* 204A(February 2023, 107652)(<https://doi.org/10.1016/j.ecolecon.2022.107652>).
- Keles\*, D., A. Pfaff and M. Mascia (2022). "Does the Selective Erasure of Protected Areas Raise Deforestation in the Brazilian Amazon?" *Journal of the Association of Environmental and Resource Economists* (<https://doi.org/10.1086/723543>).
- Morgan, S., A. Pfaff, and J. Wolfersberger (2022). "Environmental Policies Benefit Economic Development: implications of multiple mechanisms from economic geography". *Annual Review of Resource Economics*
- Ruggiero\*, P., A. Pfaff, P. Pereda, E. Nichols, M. and J.P. Metzger (2021). "The Brazilian intergovernmental fiscal transfer for conservation: a successful but self-limiting incentive program". *Ecological Economics* 191 (<https://doi.org/10.1016/j.ecolecon.2021.107219>)
- Robalino\*, J., A. Pfaff\*, C. Sandoval, G.A. Sanchez-Azofeifa (2021). "Can We Increase the Impacts from Payments for Ecosystem Services? Impact rose over time in Costa Rica, yet spatial variation indicates more potential". *Forest Policy & Economics* 132 (<https://doi.org/10.1016/j.forpol.2021.102577>).
- Rodríguez\*, L.A., M.V. Vélez and A. Pfaff (2021). "Leaders' Distributional and Efficiency Effects in Collective Responses to Policy: lab-in-field experiments with small-scale gold miners in Colombia". *World Development* 147 (<https://doi.org/10.1016/j.worlddev.2021.105648>)
- Ruggiero\*, P., A. Pfaff, E. Nichols, M. Rosa and J.P. Metzger (2021). "Election Cycles Affect Deforestation within Brazil's Atlantic Forest". *Conservation Letters* e12818 (<https://doi.org/10.1111/conl.12818>)
- Keles\*, D., P. Delacote, A. Pfaff, S. Qin and M. Mascia (2020). "What Drives the Erasure of Protected Areas? Evidence from across the Brazilian Amazon". *Ecological Economics* 176 (<https://doi.org/10.1016/j.ecolecon.2020.106733>)

- Borner\*, J., D. Schulz, S. Wunder and A. Pfaff (2020). “The Effectiveness of Forest Conservation Policies and Programs”. *Annual Review of Resource Economics* 12:19.1-19.20. (<https://doi.org/10.1146/annurev-resource-110119-025703>)
- Correa\*, J., E. Cisneros, J. Borner, A. Pfaff, M. Costa, R. Rajao (2020). “Evaluating REDD+ at Subnational Level: Amazon Fund impacts in Alta Floresta, Brazil”. *Forest Policy and Economics* 116:102178.
- Sills\*, E.O., A. Pfaff, L. Andrade, J. Kirkpatrick, R. Dickson (2020). “Investing in Local Capacity to Respond to a Federal Environmental Mandate: forest & economic impacts of the Green Municipality Program in the Brazilian Amazon”. *World Development* 129:104891.
- Díaz\* S., J. Settele\*, E. S. Brondízio\*, H. T. Ngo, J. Agard, A. Arneeth, P. Balvanera, K. A. Brauman, S. H. M. Butchart, K. M. A. Chan, L. A. Garibaldi, K. Ichii, J. Liu, S. M. Subramanian, G. F. Midgley, P. Miloslavich, Z. Molnár, D. Obura, A. Pfaff, S. Polasky, A. Purvis, J. Razzaque, B. Reyers, R. Roy Chowdhury, Y. Shin, I. Visseren-Hamakers, K. J. Willis, C. N. Zayas (2019). “Pervasive human-driven decline of life on Earth points to the need for transformative change.” *Science* 366 eaax3100 (doi: 10.1126/science.aaw3100).
- Rodriguez\*, L.A., A. Pfaff, and M.A. Velez (2019). “Graduated Stringency within Collective Incentives for Group Environmental Compliance: building coordination in field-lab experiments with artisanal gold miners in Colombia”. *Journal of Environmental Economics and Management*
- Herrera D., A. Pfaff and J. Robalino (2019). "Impacts of protected areas vary with the level of government: comparing avoided deforestation across agencies in the Brazilian Amazon". *Proceedings of the National Academy of Science* [www.pnas.org/cgi/doi/10.1073/pnas.1802877116](http://www.pnas.org/cgi/doi/10.1073/pnas.1802877116)
- IPBES (2019): Summary for policymakers of the global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. S. Díaz, J. Settele, E. S. Brondízio E.S., H. T. Ngo, M. Guèze, J. Agard, A. Arneeth, P. Balvanera, K. A. Brauman, S. H. M. Butchart, K. M. A. Chan, L. A. Garibaldi, K. Ichii, J. Liu, S. M. Subramanian, G. F. Midgley, P. Miloslavich, Z. Molnár, D. Obura, A. Pfaff, S. Polasky, A. Purvis, J. Razzaque, B. Reyers, R. Roy Chowdhury, Y. J. Shin, I. J. Visseren-Hamakers, K. J. Willis, and C. N. Zayas (eds.). IPBES secretariat, Bonn, Germany. 56 pages. <https://doi.org/10.5281/zenodo.3553579>
- Losos\*, L., A. Pfaff\*, L. Olander, S. Mason and S. Morgan (2019). “Reducing Environmental Risks from Belt and Road Initiative Investments in Transportation Infrastructure”. Policy Research Working Paper 8718, World Bank Group, Macroeconomics Trade and Investment Global Practice, Washington, DC.
- Garrett\*, R., A. Pfaff\*, K. Komives, J. Milder and X. Rueda (2019). “When and Why Supply-Chain Sustainability Initiatives “Work”: linking initiatives’ effectiveness to their characteristics and contexts”. Meridian Institute, Washington, DC (available at [merid.org/content/projects/](http://merid.org/content/projects/)).
- Pfaff\*, A., L. A. Rodriguez\* and E. Shapiro-Garza (2019). "Collective Local Payments for Ecosystem Services: new local PES between groups, sanctions, and prior watershed trust in Mexico". *Water Resources and Economics* (<https://doi.org/10.1016/j.wre.2019.01.002>).
- Naidoo\*, R., D. Gerkey, D. Hole, A. Pfaff, B. Fisher, A.M. Ellis, C.D. Golden, D. Herrera, K. Johnson, M. Mulligan and T. Ricketts (2019). “Evaluating the impacts of protected areas on human well-being across the developing world”. *Science Advances* 5:eaav3006.

- Panlasigui\*, S., J. Rico-Straffon, A. Pfaff, J. Swenson, C.J. Loucks (2018). "Impacts of Certification, Uncertified Concessions, Hunting Zones and Protected Areas on Forest Loss in Cameroon, 2000 to 2013". *Biological Conservation* 227:160-166.
- Fisher\*, B., D. Herrera, D. Adams, H.E. Fox, L. Gallagher, D. Gerkey, D. Gill, C.D. Golden, D. Hole, K. Johnson, S.S. Myers, R. Naidoo, A. Pfaff, R. Rasolofoson, E. Selig, D. Tickner and T. Ricketts (2018). "Nature can deliver on the SDGs". *Lancet Planetary Health*.
- Pfaff\*, A., M.A. Velez \*, A. Hamoudi, R. Taddei and K. Broad (2018). "Contracts versus Trust for Transfers of Nature's Services: equity and efficiency in resource allocation and environmental provision". *Water Resources & Economics* (<http://dx.doi.org/10.1016/j.wre.2018.04.001>).
- Tesfaw\*, A.T., A. Pfaff, R.E.G. Kroner, S. Qin, R. Medeiros and M.B. Mascia (2018). "Land Use and Land Cover Change Shape the Sustainability and Impacts of Protected Areas". *Proceedings of the National Academy of Sciences* 115(9):2084-2089 (<http://www.pnas.org/content/115/9/2084>).
- Komives, K., A. Arton, E. Baker, E. Kennedy, C. Longo, D. Newsom, A. Pfaff and C. Romero (2018). "Conservation Impacts of Voluntary Sustainability Standards: how has our understanding changed". Meridian Institute, Washington, DC (available at [merid.org/content/projects/](http://merid.org/content/projects/)).
- Pfaff\*, A., J. Robalino, R. Walker, S. Perz, W. Laurance, C. Bohrer, J.A. Robalino, S. Aldrich, E. Arima, M. Caldas and K. Kirby (2018). "Roads & SDGs, Tradeoffs and Synergies: learning from Brazil's Amazon in distinguishing frontiers". *Economics*. [dx.doi.org/10.5018/economics-ejournal.ja.2018-11](http://dx.doi.org/10.5018/economics-ejournal.ja.2018-11)
- Herrera\*, D., A. Ellis, B. Fisher, C.D. Golden, K. Johnson, M. Mulligan, A. Pfaff, T. Treur and T.H. Ricketts (2017). "Upstream watershed condition predicts rural children's health across 35 developing countries". *Nature Communications* 8:811 (doi: 10.1038/s41467-017-99775-2).
- Kaczan\*, D. A. Pfaff\*, L.A. Rodriguez and E. Shapiro-Garza (2017). "Increasing the Impact of Collective Incentives in Payments for Ecosystem Services". *Journal of Environmental Economics and Management* (<http://dx.doi.org/10.1016/j.jeem.2017.06.007>).
- Alpizar, F., A. Norden, A. Pfaff and J. Robalino (2017). "Spillovers from Targeting of Incentives: exploring responses to being excluded". *Journal of Economic Psychology* 59:87-98.
- Pfaff\*, A. and J. Robalino\* (2017). "Spillovers from Conservation Programs". *Annual Review of Resource Economics* 9:299-315.
- Robalino\*, J.A., A. Pfaff and L. Villalobos (2017). "Heterogeneous Local Spillovers from Protected Areas in Costa Rica". *Journal of the Association of Environmental and Resource Economists* 4(3):795-820 (<http://dx.doi.org/10.1086/692089>).
- Pfaff, A., A. Schoenfeld, K.M. Ahmed and L. van Geen (2017, online March 18). "Reduction in Exposure to Arsenic from Drinking Well-Water in Bangladesh limited by insufficient testing and awareness". *Journal of Water, Sanitation and Hygiene for Development*.
- Pfaff\*, A. F. Santiago-Avila\* and L. Joppa. (2017). "Evolving Protected-Area Impacts in Mexico: political shifts as suggested by impact evaluations". *Forests* 8(17) doi:10.3390/f8010017.

- Alpizar, F., A. Norden, A. Pfaff and J. Robalino (2015). "Unintended Effects of Targeting an Environmental Rebate". *Environmental and Resource Economics* doi:10.1007/s10640-015-9981-2.
- Pfaff\*, A., J. Robalino\*, C. Sandoval and D. Herrera (2015, online October 12). "Protected area types, strategies and impacts in Brazil's Amazon: public PA strategies do not yield a consistent ranking of PA types by impact". *Philosophical Transactions B* (<http://dx.doi.org/10.1098/rstb.2014.0273>).
- Mandle, L., B.P. Bryant, M. Ruckelshaus, D. Geneletti, J.M. Kiesecker and A. Pfaff (2015, online 9/28). "Entry Points for Considering Ecosystem Services within Infrastructure Planning: how to integrate conservation with development in order to aid them both". *Conservation Letters* doi 10.1111/conl.12201
- Pfaff\*, A.; J.A. Robalino\*, D. Herrera and C. Sandoval (2015). "Protected Areas' Impacts on Brazilian Amazon Deforestation: examining conservation - development interactions to inform planning". *PLOS ONE* 10(7): e0129460. doi:10.1371/journal.pone.0129460.
- Sills\*, E.O., D. Herrera, A.J. Kirkpatrick, A. Brandao Jr., R. Dickson, S. Hall, S. Pattanayak, D. Shoch, M. Vedoveto, L. Young and A. Pfaff (2015, online July 14). "Estimating the Impacts of Local Policy Innovation: the synthetic control method applied to tropical deforestation". *PLOS ONE* 10(7): e0132590. doi:10.1371/journal.pone.0132590.
- Pfaff\*, A., M.A. Velez\*, P. Ramos and A. Molina (2015). "Framed Field Experiment on Resource Scarcity & Extraction: path-dependent generosity within sequential water appropriation". *Ecological Economics* 120:416-429.
- Robalino, J., C. Sandoval, D. Barton, A. Chacon and A. Pfaff (2015). "Evaluating Interactions of Forest Conservation Policies on Avoided Deforestation". *PLoS ONE* 10(4): e0124910. doi:10.1371/journal.pone.0124910
- Blackman\*, A., A. Pfaff and J. Robalino (2015). "Paper Park Performance: Mexico's Natural Protected Areas in the 1990s". *Global Environmental Change* 31:50-61.
- Haruna\*, A., A. Pfaff\*, S. van den Ende, and L. Joppa (2014). "Evolving Protected-Areas Impacts in Panama: impact shifts show that plans require anticipation". *Environmental Research Letters* 9.
- Engel, S., C. Palmer and A. Pfaff (2013). "On the Endogeneity of Resource Co-management: theory and evidence from Indonesia". *Land Economics* 89(2):308-329.
- Pfaff\*, A., G.S. Amacher and E.O. Sills (2013). "Realistic REDD: improving the forest impacts of domestic policies in different settings". *Review of Environmental Economics and Policy* 7(1):114-135 (doi:10.1093/leep/res023).
- Pfaff\*, A., J. Robalino\*, E. Lima, C. Sandoval and L.D. Herrera (2013). "Governance, Location and Avoided Deforestation from Protected Areas: greater restrictions can have lower impact, due to differences in location". *World Development* (<http://dx.doi.org/10.1016/j.worlddev.2013.01.011>).
- Robalino, J.A. and A. Pfaff (2013). "Ecopayments and Deforestation in Costa Rica: a nationwide analysis of PSA's initial years". *Land Economics* 89(3):432-448.
- Soumya\*, H.B., A. Pfaff\*, L. Benneer, A. Tarozzi, K.M. Ahmed, A. Schoenfeld and A. van Geen (2013). "Evolution of households' responses to the groundwater arsenic crisis in Bangladesh: information on



- environmental health risks can have increasing behavioral impact over time”. *Environment and Development Economics* 19:631-647 (doi:10.1017/S1355770X13000612).
- Benbear\*, L. A. Tarozzi, A. Pfaff, H.B. Soumya, K.M. Ahmed and A. van Geen (2013). “Impacts of a Randomized Controlled Trial in Arsenic Risk Communication on Household Water Supply Choices in Bangladesh”. *Journal of Environmental Economics and Management* 66(2):226-240.
- Pfaff\*, A., M.A. Velez\*, R. Taddei and K. Broad (2013). “Unequal Information, Unequal Allocation: bargaining field experiments in NE Brazil”. *Environmental Science & Policy* 26:90-101.
- Mueller\*, V., A. Pfaff\*, J. Peabody, Y. Liu, and K.R. Smith (2013). “Improving Stove Evaluation Using Survey Data: who received which intervention matters”. *Ecological Economics* 93:301-312.
- Pfaff\*, A. and J. Robalino (2013). “Predicting Policy Impact on Tropical Dry Forest”, in Arturo Sanchez, ed., *Tropical Dry Forests in the Americas: ecology, conservation and management*. Taylor & Francis.
- Pfaff\*, A. and J. Robalino (2012). “Protecting Forests, Biodiversity and the Climate: predicting policy impact to improve policy choice”. *Oxford Review of Economic Policy* 28(1):164-179.
- Robalino\*, J.A. and A. Pfaff (2012). “Contagious Development: neighbor interactions in deforestation”. *Journal of Development Economics* 97:427-436.
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### **Funding (*last decade*)**

2024 Duke University, NIEES, Climate Research Innovation Seed Funding (CRISP)(\$20,000) to support PhD student research on downstream health gains from conserving forests upstream in Peru.

- 2023 Duke University, CLACS, research travel support (\$3,000) to visit universities (and local agencies) in four Latin American countries (Chile, Brazil, Uruguay, Colombia) for joint research study.
- 2022 Duke University, Climate & Data (\$400,000); Co-Investigator (with others & PI Dr. John Poulsen), supporting field research on the impacts of USAID interventions upon local climate impacts.
- 2022 Duke University, Climate & Health (\$400,000); Co-Investigator (with others & PI Dr. William Pan), supporting field research on communication of improved climate-based forecasts of malaria.
- 2022 CAF (Corporación Andina de Fomento or “development bank of Latin America”), (\$6,000); Co-I for support for USCB PhD student Jimena Rico to evaluate Peruvian Amazon protected areas.
- 2022 Conservation International-Guyana (\$180,000); Co-Investigator (with Dr. William Pan), for study of the current supply chains for gold in Guyana and gaps in plans to transition out of mercury use.
- 2022 USFQ (Universidad San Francisco de Quito), Quito, Ecuador (\$6,000); PI organizing team for which summer funding was given to Duke MEM student Chrissie Pantoja to evaluate PES in Ecuador.
- 2022 Duke University, MedX (\$60,000); Co-Investigator (with Dr. Heileen Hsu-Kim & Dr. William Pan), supporting field research on the impacts of artisanal and small-scale gold mining in Ecuador.
- 2022 Duke University, Trent, mining research support (\$5,000); Co-Investigator (with Dr. William Pan) for PhD students D. Tobin & C. de Los Rios to study Ecuador and Guyana mining interventions.
- 2021 Duke University, CLACS, research travel support (\$1,800); Co-Investigator (with Dr. William Pan) for PhD student Danny Tobin to visit UNDP Ecuador to jointly study mining interventions.
- 2021 Duke University, Bass Connections, Energy and Environment theme (\$25,000); Co-Investigator (with Dr. William Pan and Heileen Hsu-Kim) on a student project to support a mercury capture pilot.
- 2021 Duke University, Duke Global Health Initiative, research support (\$3,500); Co-Investigator (with Dr. William Pan) on project to support the development of roll-outs for a mercury capture system.
- 2021 Pure Earth, for applied policy and research workshops (\$34,000); Co-Investigator (with Dr. William Pan) on project to support the organization and implementation of joint workshops on policy.
- 2020 ConservationX Artisanal Mining Grand Challenge (Mercer College, \$200,000); Co-Investigator (with Dr. William Pan), as Duke contributors to team to field test innovation for capturing mercury.
- 2020 Exeter University’s Global Partnerships (with Duke University, £12,000); Co-Investigator. Examination of interactions between norms and incentives in resource management.
- 2019 Environment for Development research grant (University de los Andes, \$49,445); Co-Investigator. Motivations for and barriers to more sustainable community gold mining in Colombia.
- 2018 Environment for Development research grant (University de los Andes, \$43,000); Co-Investigator. What happens when one no longer gets ecosystem services payments? Field study in Colombia.
- 2014 World Wildlife Fund, research grant (Duke, \$4,000/1 student); PI. Assessment of the forest impacts of programs to certify production processes within timber concessions in Peru and in Cameroon.

- 2014 Gothenberg University, research grant (Duke, \$7,200/1 student); PI. Examination of welfare impacts from permitting eco-services suppliers, like farmers, to sell multiple services to distinct markets.
- 2013 World Wildlife Fund, research grant (Duke, \$8,000/1 student); PI. Assessment of the forest impacts of programs to certify production processes within timber concessions in Peru and in Cameroon.
- 2012 Tinker Foundation, Institutional Grant (Duke, \$438,848/3 years); CoPI. Assessment of a recent pilot and potential new strategies for a Mexican forest agency to link ecoservices users and producers.

**Dissemination: presentations of my research (*last decade*)**

Economics Department, University of Connecticut, Storrs, CT. Presented an overview of multiple papers as "Rights, Private Responses, and Optimal Public Policies: Political Economy of Forest Conservation" 4/2/24

University of Sao Paulo, PES Scaling Workshop with State Environment Ministry. Presented the overview "Scaling Up Impact from Payments for Ecosystem Services: evidence from relevant experiences", 2/8/24.

Economics Department, University of Sao Paulo, Sao Paulo, Brazil. Presented overviews of a few papers as "Rights, Private Responses, and Optimal Public Policies: Political Economy of Forest Conservation" 2/7/24

Universidad Catolica, Faculty of Agronomy and Natural Systems, Santiago, Chile. Presented an overview of experimental economics papers on the environment as "Allocations & Incentives in Latin America" 1/25/24

University of Vermont, Gund Institute for Environment, Burlington, VT. Presented the overview "Rights, Private Responses, and Optimal Public Policies: The Political Economy of Forest Conservation" 11/17/23

FLARE (Forests & Livelihoods: Assessment, Research, Engagement) Annual Meeting in Nairobi, Kenya. Presented "Comparing Protection Types in the Peruvian Amazon: multiple-use did no worse", 10/13/23

FLARE (Forests & Livelihoods: Assessment, Research, Engagement) Annual Meeting in Nairobi, Kenya. Invited participant in opening expert panel on bringing research to forest-and-livelihoods policy 10/12/24.

University of Exeter, LEEP / Economics/ Business School, Exeter, England. Presented an overview "Rights, Private Responses, and Optimal Public Policies: The Political Economy of Forest Conservation" 10/9/23

London School of Economics (LSE), Geography Department and Grantham Institute London, England. Presented "Comparing Protection Types in the Peruvian Amazon: multiple-use did no worse", 10/6/23

Cambridge University, Land Economy / Geography, Cambridge, England. Presented an overview "Rights, Private Responses, and Optimal Public Policies: The Political Economy of Forest Conservation" 10/4/23

University of Glasgow, Biodiversity & One Health & Social and Political Sciences. Glasgow, Scotland. Presented "Comparing Protection Types in the Peruvian Amazon: multiple-use did no worse", 9/28/23

University of Tilburg, School of Economics and Management, Tilburg, Netherlands. Presented the paper "Are The Impacts Of External Environmental Interventions Shifted By Informal Institutions?", 9/21/23.

SIAW Institute, University of St. Gallen, Brownbag Seminar, Switzerland. Presented an overview "Rights, Private Responses, and Optimal Public Policies: The Political Economy of Forest Conservation" 9/11/23

FAERE (French Association of Environmental and Resource Economics) Annual Meeting, Montpellier. Co-author Gwen Le Velly presented “Do Elections Drive Conservation Voting in the USA?”, 9/9/23

BioEcon Conference, Santiago de Compostela, Spain. Presented the paper “Rights & Private Reactions Affect Public Optimizations: comparing PA types in the Peruvian Amazon”, 8/31/23

UNDP Ecuador – PNSQ – Ecuadorean Ministries workshop for dissemination of results on mining policy, Quito, Ecuador. Co-author Danny Tobin presented our results and implications for impacts claims, 8/2/23

Ore-Selling Results Dissemination Workshop, *Jancheras* Communities, Camilo Ponce Enriquez, Ecuador. Co-authors Danny Tobin and Dayron Monroy presented UNDP-funded survey and choice results, 7/29/23

WEA (Western Economic Association) Meetings, co-author Jimena Rico presented our paper “Comparing Protection Types in the Peruvian Amazon: multiple-use protected areas did no worse for forests”. 6/30/23

ATBC (Association for Tropical Biology and Conservation), 59<sup>th</sup> Annual Meeting, co-author Danny Tobin presented “Pathways Toward Restoration & Reduced Contamination from Artisanal Gold Mining” 6/14/23

Resources, Conflict & Environment Workshop, Zurich, co-author Sabrina Eisenbarth gave “Are the impacts of external environmental interventions shifted by pre-existing informal or formal institutions?” 6/22/23

AERE (Association of Environmental and Resource Economists) Summer Conference, “Are the impacts of external environmental interventions shifted by pre-existing informal or formal institutions?” 6/1/23

AERE (Association of Environmental and Resource Economists) Summer Conference, in Portland (Maine), co-author Jimena Rico presented our paper “Comparing Protection Types in the Peruvian Amazon”. 5/31/23

University of St. Gallen in Switzerland, co-author Sabrina Eisenbarth presented our paper “Are the impacts of external environmental interventions shifted by pre-existing informal or formal institutions?” 5/10/23

RIDGE Forum, Policy Sessions for Applications of Environmental Economics, Montevideo. Presented “How has it gone, to date, with economic incentives for conservation of ecosystem services?” 12/7/22.

Keynote, RIDGE (Research Institute for Development, Growth and Economics) Environmental Economics, Montevideo. Presented “ What has (not) worked: environmental impacts of policy interventions” 12/6/22.

LACEA (Latin American Economic Association), CAF (Corporación Andina de Fomento) workshop on selected research projects, co-author Jimena Rico presented “Impacts of Peruvian Amazon PAs” 11/3/22.

Minamata Convention on Mercury, Online Session on Mercury Science Drives Policy, Duke/Mercer team presented “Improving Evidence, and Outcomes, in Artisanal and Small-Scale Gold Mining”. 11/2/22.

ICMGP (International Conference on Mercury as a Global Pollutant), session hosted by Duke/Mercer. Presented “Improving Evidence, and Outcomes, in Artisanal and Small-Scale Gold Mining”. 7/19/22.

Environmental Politics & Governance conference, Pennsylvania State University. Presented the paper “Does Selective Erasure of Protected Areas Raise Deforestation in the Brazilian Amazon?”. 6/30/2022

AERE (Association of Environmental & Resource Economists) Summer Conference, Miami. Presented “Does Selective Erasure of Protected Areas Raise Deforestation in the Brazilian Amazon?”. 6/2/2022

University of British Columbia, Food & Resource Economics Group, Faculty of Land and Food Systems. Presented “Political Economy of Forest Protection: PA creation, cancellation & consequences”. 4/5/22

University of Miami, Rosenstiel School, Environmental Dialogues on Land Conservation, online. Presented “Political Economy and Deforestation: implications for resource management and policy”. 2/25/22

Opening Keynote, 4<sup>th</sup> International Conference on Natural Resource Management and Public Policy, hosted by Huazhong Agricultural University. “Political Economy of Protection and Deforestation”. 10/22/21

LAERE (Latin American Association of Environmental & Resource Economists), invited seminar, online. Presented “Some Political Economy of Protected Areas and Deforestation in Latin America”. 10/6/21

Keynote, “Global Perspectives on Deforestation and Policy” conference, University of Surrey. Presented “Political Economy of Deforestation: learning to improve forest management and public policy”. 6/24/21

Brussels School of Governance, invited panelist for “Protected Areas: human-rights perspectives”, speaking on “*De facto* versus *de jure* rights: when can a conservation restriction also generate a local right?”. 4/27/21

Sciences Po (Paris Institute of Political Studies), invited lecture for “Science and Politics of the Planet”, on “Better integrated policy planning based on variation in policy impacts due to policy interactions”. 4/12/21

Inter-American Development Bank, Climate Change and Sustainable Development Sector Seminar. Co-author Maria Alejandra Velez presented “Effects of Ending Payments for Ecosystem Services” 2/10/21

Columbia University, Dean’s Seminar Series on Chronic Disease (online now). As a Coordinating Lead Author of IPBES’ Global Assessment, presented “Human Activity and Ecosystem Ablation” 11/19/20

Environment for Development (Efd), 14<sup>th</sup> Annual conference (online). “Effects of Ending Ecopyments: does removing people from incentives programs crowd conservation behaviors out ... or in?” 11/18/20

Javeriana University, invited lecturer (had to be online): “How Has Our Understanding of the Conservation Impacts of Voluntary Sustainability Standards Changed Since the 2011 RESOLVE Report” 10/2/20

World Economic Forum, Nature Economy Report. Invited contributor (representing IPBES) for the report “The Future of Nature and Business” (Food/Land/Ocean, Infrastructure, Energy/Extractives). 2/3-5/20

Convention on Biological Diversity, SBSTTA, Montreal CA. Invited presentations on “The IPBES Global Assessment”, with a focus on drivers that shift nature’s contributions, plus the policy responses. 11/23/19

NESP, invited Webinar (with fellow Coordinating Lead Author Steve Polasky) on “Interpreting the IPBES Global Assessment”, with a focus on drivers, shifts in nature’s contributions, policy responses. 8/1/19

University of Los Andes, Latin American Center for Sustainable Development Goals & Environment for Development, Bogota, Chile. Presented “Integrating Development & Conservation Planning”. 1/21/19

ISEAL, invited Webinar on certifications evidence: “How Has Our Understanding of the Conservation Impacts of Voluntary Sustainability Standards Changed Since the 2011 RESOLVE Report” 11/15/18

Duke-Kunshan University, Workshop on Spatial Environmental Solutions to Transport, Kunshan, China. Co-author Seth Morgan presented “Heterogeneous LUC Responses to Transport Infrastructure” 10/15/18



Environmental & Natural Resource Conservation Workshop, Montpellier, France. Presented an opinion talk “How (NOT) to Spend Global Conservation Funding: political economy & heterogeneous impacts” 10/1/18

World Bank, Workshop on China’s Belt & Road Initiative (BRI), Washington, DC. Presented the report “Environmental Risks & Mitigation Strategies for BRI Transportation Infrastructure Investment” 9/20/18

Cambridge University, Workshop on Social Preferences, Cambridge, England. Presented invited paper “Contributions & Coordinations concerning Natural Resources: lab-in-field experiments”. 9/12/18

Environmental Politics & Governance conference, Stockholm, Sweden. Presented the paper “Collective Environmental Incentives (PES) and ‘Watershed Social Capital’ in Mexico: field experiments” 6/29/18.

World Congress of Environmental Economics, ‘Group Dynamics in Resource Dilemmas’, Gothenberg, Sweden. Co-author Maria Alejandra Velez presented “Incentives in Gold Mining in Colombia”. 6/26/18.

World Congress of Environmental Economics, ‘Group Dynamics in Resource Dilemmas’, Gothenberg, Sweden. Presented paper “Collective Environmental Incentives & Watershed Trust in Mexico”, 6/26/18.

World Congress of Environmental Economics, pre-event meeting, Environment for Development Forest Collaborative, Gothenberg, Sweden. Presented “Political Economy of Protected Area Impacts, 6/25/18.

World Congress of Environmental Economics, EAERE pre-event. Participated in an outreach event with Swedish environmental agency staff ‘Increasing the Use of Evidence In Environmental Policy’. 6/25/18.

Latin American Studies Association, Barcelona, Spain. Presented the paper(s) “Collective Environmental Incentives & PES Group Dynamics in Mexico: lab experiments in the field on coordination”. 5/25/18.

Environmental & Experimental Economics Workshop, Appalachian State, Blowing Rock, NC. Presented “Collective Environmental Incentives & PES Group Dynamics in Mexico: field lab experiments”. 4/28/18.

Duke Brazil Initiative, Amazonia Symposium, Durham, North Carolina. Presented the paper(s) “Protected Area Impacts in the Brazilian Amazon: considering political economy for efficiency and equity”. 4/5/18.

University of Toronto, Economics Department, Toronto, Canada. Presented “Collective Environmental Incentives and Group Dynamics in Mexico & Colombia: evidence from experiments in field”. 3/16/18.

National Academy of Sciences: Environment, Economics and Sustainable Development Symposium, Irvine, CA. Presented “Sustainable What?: development dynamics drive environmental policy impacts”. 1/17/2018

Workshop on Land-Use Spillover and Leakage Effects, Berlin, Germany. Presented “Protected Areas, Local Deforestation Spillovers & Multiple Underlying Mechanisms: Costa Rica and Brazilian Amazon”. 11/10/17

FLARE (Forests & Livelihoods: Assessment, Research, Engagement) 3<sup>rd</sup> conference, Stockholm, Sweden. Co-author Erin Sills presented our paper “Supply Chains, Jurisdictions and Forest Governance”. 10/5/17

Keynote Address for the French Association of Environmental and Resource Economics in Nancy, France: “Environment & Development beyond being in a poor country: development processes and goals”. 9/13/17

Pontificia Universidad Catolica, Santiago, Chile. Presented “Collective Incentives within the Creation and Function of Local PES: framed field experiments concerning coordination and sanctioning”. 6/22/17

World Congress of the International Economic Association, Mexico City, Mexico. Co-author Jimena Rico presented “Logging Concessions, Certification & Protected Areas in the Peruvian Amazon”. 6/22/17

World Congress of the International Economic Association, Mexico City, Mexico. Co-author Maria Carnovale presented our draft paper “Who Gets the Surplus in Value Chains?”. 6/20/17

International Symposium on Environment & Energy Finance Issues, Paris, France. Co-author Jimena Rico presented “Logging Concessions, Certification & Protected Areas in the Peruvian Amazon”. 5/23/17

FLARE (Forests & Livelihoods: Assessment, Research, Engagement) 2<sup>nd</sup> conference, Edinburgh, Scotland. Presented draft paper “Conservation Under Threat: land restrictions, land rights and efficiency”. 12/4/16

World Bank, Workshop on “Economic Development and Deforestation”, Washington, DC. Presented “Protected Areas’ Spillovers to Deforestation and Development in the Brazilian Amazon”. 11/14/16

World Wildlife Fund’s Peruvian office – talk in Puerto Maldonado, Peru. Co-author Jimena Rico presented our draft paper “Logging Concessions, Certification & Protected Areas in the Peruvian Amazon”. 10/14/16

Forest Stewardship Council, Peruvian office (with SERFOR), Lima, Peru. Co-author Jimena Rico presented our draft paper “Logging Concessions, Certification & Protected Areas in the Peruvian Amazon”. 10/11/16

AERE (Association of Environmental and Resource Economists) 5<sup>th</sup> Annual Summer Conference, CO. Co-author Luz Rodriguez presented “Collective Incentives in Mining given Limited State Capacity”. 6/10/16

AERE (Association of Environmental and Resource Economists) 5<sup>th</sup> Annual Summer Conference, CO. Co-author David Kaczan presented “Sanctions and Cooperation in Collective Payments for PES” 6/10/16

CRED (Center for Research on Environmental Decisions), Annual Meeting, New York, NY. Presented “Collective Incentives for Service Provision in Colombian Mining & Mexican Ecopayments”, 6/6/16.

University of Washington, Center for Environmental Politics, Duck Family Workshop, Seattle, WA. Co-author Luz Rodriguez presented “Collective Incentives in Mining given Limited State Capacity”. 5/25/16.

World Wildlife Fund, Kathryn Fuller Seminar (“Science for Nature”), Washington, DC. Presented “Maximizing Returns from Conservation Investments: can we do better on all impacts?” 4/14/16

ISFRE (International Society of Forest Resource Economists), Annual Meeting, Raleigh, NC. Presented “Multiple Use PAs Can Reduce Poverty And Deforestation: dependable local capture of surplus”. 4/4/16

McGill University, ISID (Institute for the Study of International Development) Seminar, Montreal, Quebec. Presented “Evaluation of Conservation Initiatives: more guidance from development models?” 3/24/16.

World Bank, 17<sup>th</sup> Annual Conference on Land and Poverty, Washington, DC. Presented “Multiple Use PAs Can Reduce Both Poverty & Deforestation: dependable local capture of surplus via regulation”. 3/17/16

Foro Ambiental, "La Sequia en la Gran Cuenca del Magdalena Cauca", Bogota. Co-author M.A. Velez presented "Resource scarcity & extraction: path-dependent generosity in water appropriation". 1/29/16

Conservation Strategy Fund / Interamerican Development Bank invited webinar. Presented “Effectiveness of Protected Areas in Amazon Conservation: ever more moving parts within evaluation of PAs”. 12/16/15

AidData, Conservation Impacts of Foreign Aid workshop, Washington DC. Presented "Ever More Moving Parts in Evaluation of Conservation: extending evaluation with underlying development models". 12/10/15

FLARE (Forests & Livelihoods: Assessment, Research, Engagement) inaugural conference, Paris, France. Presented draft paper "Multiple Use Protected Areas Can Reduce Poverty And Deforestation". 11/28/15

CESIEP (Centro par el Impacto Socioeconomic de las Politicas Ambientales) inaugural seminars, Santiago. Presented keynote "Impacts of Concessions, FSC Certification and PAs in the Peruvian Amazon". 11/16/15

CESIEP (Centro par el Impacto Socioeconomic de las Politicas Ambientales) research workshop for launch, Valparaiso, Chile. Presented "Can Conservation Help The Poor? dependable capture of surplus". 11/14/15

BioEcon, Cambridge University, Cambridge, England. Co-author Luz Rodriguez presented the draft paper "Creating New, Local Ecopayments Institutions in Mexico: a framed field experiment on trust..". 9/14/2015

LACEEP 10<sup>th</sup> Anniversary research workshop, CIDE, Mexico City. Co-author Luz Rodriguez (LACEEP grantee) presented "Institutional Design for Small Scale Gold Mining on the Colombian Frontier" 7/24/15.

LACEEP 10<sup>th</sup> Anniversary research workshop, CIDE, Mexico City. Co-author Luz Rodriguez (LACEEP grantee) presented the draft paper "Creating New, Local Ecopayments Institutions in Mexico" 7/22/15.

LACEEP 10<sup>th</sup> Anniversary research workshop, CIDE, Mexico City. Presented one of the keynote addresses "Ever More Moving Parts: LACEEP improves policy evaluation with theory from context". 7/21/15

EAERE (European Association of Environmental and Resoure Economists) summer meeting, Norway. Co-author Maria Carnovale presented "Stacking Impacts on Ecoservices and Costs in Varied Settings". 6/20/15

AERE (Association of Environmental and Resoure Economists) summer meeting, San Diego CA. Co-author David Kaczan presented the draft paper "Creating New, Local Ecopayments Institutions in Mexico". 6/4/15

CONAFOR (Mexican forest agency) 2<sup>nd</sup> workshop to consider Fondos Concorrentes, Guadalajara, Mexico. Presented our findings from two summers of field experiemtns on trust, sanctions, coordination. 6/1-2/15

COFFEE research network inaugural workshop, Barcelona, Spain. Presented "Building PES Institutions in Mexico: policy design issues raised by CONAFOR's matching funds (Fondos Concorrentes)". 5/18/15

COFFEE research network inaugural workshop, Barcelona, Spain. Co-author Maria Alejandra Velez presented "Institutional Design for Small Scale Gold Mining on the Frontier (in Colombia)". 5/18/15

Duke Law School, Inequality & Economic Analysis of Climate Change workshop, Durham, NC. Presented two sets of results "Can REDD Help The Poor? dependably local capture of surplus via regulation 5/28/15.

Brown University, International Symposium on Sustainabiliy in Brazil, Providence, RI. Presented summary of many results as "Evidence Supporting Integration of Conservation & Economic Development". 4/18/15

Climate Economics Chair Seminar, Paris, France. Presented a summary of many related results in the form "Why REDD+ Should Integrate Conservation and Development: policy interactions to plan around". 4/3/15

INRA / LEF (Forest Economics Laboratory) seminar, Nancy, France. Presented a summary of many results, including "Why REDD+ Should Integrate Conservation and Development: forest policy interactions" 4/1/15

Environmental Defense Fund, Economics Advisory Council meeting, Boston, MA. Presented an overview of analyses as "Considering Challenges for Stacking within Incentives for Landowners and Firms". 1/3/15

U.S. EPA's National Center for Environmental Economics (NCEE), Washington D.C. Presented the paper "Realistic REDD: integrating conservation and development via road locations and thus impacts?". 12/9/14

ACES 2014 Conference, "Biodiversity Gains From Coordinated Environmental Markets", Washington, DC. Presented "Considering Challenges for Stacking within Incentives for Firms and Landowners". 12/8/14

Heartland Workshop on Environmental and Resource Economics, Urbana-Champaign, IL. Co-author Diego Herrera presented "Brazilian Amazon Parks' Spillovers: evidence and a migration mechanism". 10/1/14

World Congress of Environmental and Natural Resource Economists (5<sup>th</sup>), Istanbul. Co-author Luis Diego Herrera presented "Brazilian Amazon Parks' Spillovers: evidence and a migration mechanism". 7/1/14

Indiana University, experimental group, Bloomington, Indiana. Co-author Maria Alejandra Velez presented "Path-Dependent Extraction Constrains Collective Action: high scarcity and durable selfishness" 6/19/14

London School of Economics, the 'Climate Change and Environment Research Seminar', London, England. Presented "Why Integrate Conservation and Development? Amazon roads' locations and impacts". 5/14/14

University of California at Santa Barbara 'Land Use and Ecosystem Services Provision', Santa Barbara, CA. Presented "Why Integrate Conservation and Development? Amazon roads' locations and impacts". 5/2/14

CONAFOR (Mexican forest agency) workshop to consider Fondos Concorrentes, Guadalajara, Mexico. Presented as a research team our findings from field work plus applications and extensions. 3/13-14/14

Universidad Iberoamericana & CIDE, workshop on policies to enhance eco-services, Mexico City, MX. Presented "Integrating Development and Environment within Policy Design and Evaluation". 3/12/14