

ALEX PFAFF

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Employment

2007-	DUKE UNIVERSITY	Sanford School of Public Policy	<i>Professor (from July 1, 2013)</i>
2005-2013	COLUMBIA UNIVERSITY	The Earth Institute	<i>CGSD then Adjunct Scholar</i>
1995-2005	COLUMBIA UNIVERSITY	SIPA & Economics Department	<i>Asst. then Assoc. Professor</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 (perhaps growing), French (really vanishing)

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

Service & Outreach

2020- IPBES Transformational Change Assessment, invited expert within a scoping of the mandate.

2019- World Bank and local agency consultations to evaluate a forest payments project in Colombia.

2018- Joint efforts with Conservation International towards analyses of extensive conservation data.

2018-2019 Description of environment risks, World Bank report on 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.

2014-2016 Coordination with EDF, Gothenberg U. and NIEPS for analysis and outreach about 'stacking'.

2013-2013 Main author, World Bank technical paper on Amazon roads, protected areas and 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.

2009-2010 Organization for Tropical Studies briefings for U.S. decision makers and USAID mission staff.

2009-2010 Nicholas Institute for Environmental Policy Solutions white paper and US Senate presentation.

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, ...).

2007-2009 Social Science Research Council, Dissertation Proposal Development Fellowship Program.

2004-2017 Editorial Board for the journal 'Population and Environment', Springer, Social Sciences.

Advising

Postdocs Julien Wolfersberger, Valerie Mueller, Florence Kondylis, Darby Jack, Harounan Kazianga, Maria Alejandra Velez, Miguel Fonseca, Juan Robalino, Ariaster Chimeli

PhD Programs Director of Graduate Studies for UPEP (University Program in Envir. Policy) at Duke U., Social Science Advisor for EEEB (Ecology, Evolution & Enviro. Biology) at Columbia U.

PhD Students Seth Morgan, Maria Carnovale, David Kaczan, Luz Angela Rodriguez, Luis Diego Herrera Garcia, Soumya Balasubramanya, Lucas Joppa, Dalia Amor Conde, Juan Robalino, Renzo Taddei and multiple thesis committees at Duke and other universities (in US/France/Brazil & multiple disciplinary departments (economics, political science, environmental studies)).

MA Students 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

Collective Action (PPS579S/ENV579S)

Economic Evaluation of Sustainable Development (PPS574/ENV572)

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

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

Economics of the Public Sector (PPS304/811, 2nd core economics course in Public Policy Studies BA/MPP)

Microeconomics for Policy (PPS303/810, 1st core economics course in Public Policy Studies BA/MPP)

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) {categorized by topic, method, country and year at alexpfaff.com}

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".

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

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".

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

Pfaff *, A., J. Robalino * and A. Sanchez*. "Changing the Deforestation Impacts of Ecopayments: evolutions (2000-2005) within Costa Rica's PSA".

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

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

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. *, E. Shapiro*, P. Bauche Petersen, D. Kaczan, R. Popovici, L. Rodriguez. "Linking Users and Providers of Ecosystem Services in Mexico: a policy innovation in federal facilitation of new and sustainable local water institutions". Summary delivered to the agency CONAFOR, August 2017.

Small, A. *, D. Osgood, A. Pfaff. "Resource Allocation and Investment Coordination under Uncertainty".

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

Butron*, S., J. Robalino*, P. Pacheco and A. Pfaff. "Interactions of Development Pressure with Conservation Policies: National Protected Areas' deforestation impacts in lowland Bolivia (1991-2002 & 2001-2005) rise with the pressure from development".

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

- 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”.
- Keles, D*, A. Pfaff and M. Mascia. “Does the Selective Erasure of Protected Areas Raise Deforestation in the Brazilian Amazon ?”
- Rico-Straffon, J. *, S. Panlasigui, C.J. Loucks, J. Swenson and A. Pfaff. "Logging Concessions, Certification & Protected Areas in the Peruvian Amazon: forest impacts from both rights & land-use restrictions".
- Rodríguez, L.A. *, M.V. Vélez and A. Pfaff. “Distributional Effects of Policy-Induced Collective Action: leaders’ impacts on lab-in-field experiments with small-scale mining groups in Colombia”.
- Ruggiero, P. *, A. Pfaff, E. Nichols, M. Rosa and J.P. Metzger. "Election Cycles Affect Deforestation within Brazil’s Atlantic Forest".

Publications (reverse chronological order)

- Keles, D., *, P. Delacote, A. Pfaff, S. Qin and M. Mascia (accepted 2020). “What Drives the Erasure of Protected Areas? Evidence from across the Brazilian Amazon”. *Ecological Economics*.
- 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. Arneth, 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).
- Rodríguez*, 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
- 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. Arneth, 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/).
- 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/).
- 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
- 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/reep/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.
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- Benneer, 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.
- Fonseca*, M., A. Pfaff* and D. Osgood (2012). “The Advantage of Resource Queues over Spot Resource Markets: decision coordination in experiments under resource uncertainty”. *American Journal of Agricultural Economics* 94(5):1136-1153.
- Pfaff, A. *, G.S. Amacher, E.O. Sills, M.J. Coren, K. Lawlor, C. Streck (2012). “Deforestation & Forest Degradation: concerns, causes, policies & their impacts”. Solicited entry in “*Encyclopedia of Resources, Energy and Environmental Economics*”. Elsevier.

- Yin, H. *, A. Pfaff and H.C. Kunreuther (2011). "Can Environmental Insurance Succeed Where Others Fail? the case of underground storage tanks". *Risk Analysis* 31(1):12-24, noting paper's selection as one of the best papers of 2011 by the journal editorial staff (doi: 10.1111/j.1539-6924.2010.01479.x).
- Joppa, L.* and A. Pfaff* (2011). "Global Protected Area Impacts". *Proceedings of the Royal Society B* 278(1712):1633-1638.
- Pfaff, A.* and M.A. Velez* (2011). "Efficiency and Equity in Negotiated Resource Transfers: contributions and limitations of trust with limited contracts". *Ecological Economics*, doi:10.1016/j.ecolcon.2011.10.009
- Mueller, V. *, A. Pfaff*, J. Peabody, Y. Liu, and K.R. Smith (2011). "Demonstrating bias and improved inference for stoves' health benefits". *Int' J. of Epidemiology* (doi: 10.1093/ije/dyr150)
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- Pfaff A.* and R. Walker* (2010). "Regional Interdependence and Forest 'Transitions': substitute deforestation limits the relevance of local reversals". *Land Use Policy* 27:119-129.
- Ricketts T.H. *, B. Soares-Filho, G. da Fonseca, D. Nepstad, A. Pfaff. et al. (2010) "Indigenous Lands, Protected Areas, and Slowing Climate Change". *PLoS Biol* 8(3). doi:10.1371/journal.pbio.1000331
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- Joppa, L.* and A. Pfaff* (2009). "High & Far: biases in the location of protected areas". *PLoS ONE* 4(12): e8273. doi:10.1371/journal.pone.0008273
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- Pfaff, A. *, J.A. Robalino*, G.A. Sanchez-Azofeifa, K. Andam and P. Ferraro (2009). "Park Location Affects Forest Protection: Land Characteristics Cause Differences in Park Impacts across Costa Rica," *The B.E. Journal of Economic Analysis & Policy: Vol. 9: Iss. 2 (Contributions), Article 5* (available at: <http://www.bepress.com/bejeap/vol9/iss2/art5> “)
- Pfaff, A.* and J.A. Robalino* (2009). "Human choices and policies' impacts on ecosystem services: improving evaluations of payment and park effects on conservation and carbon", chapter 11 within Engel, S. and C. Palmer, editors, *Avoided Deforestation: Prospects for Mitigating Climate Change*. Routledge Explorations in Environmental Economics.

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- Andam, K. *, P. Ferraro*, A. Pfaff, J. Robalino and A. Sanchez (2008). "Measuring the effectiveness of protected-area networks in reducing deforestation". *PNAS* 105(42):16089-16094.
- Pfaff A.* and S. Kerr* with R. Cavatassi, B. Davis, L. Lipper, A. Sanchez and J. Timmins (2008). "Effects of Poverty on Deforestation: distinguishing behavior from location" in (ed.) *Economics of poverty, environment and natural resource use*, Wageningen University Environment / Resources.
- Pfaff, A. *, A. Barbieri, T. Ludewigs, F. Merry, S. Perz and E. Reis (2008). "Road Impacts in Brazilian Amazonia". Chapter in "Amazonia and Global Change", American Geophysical Union.
- Sanchez-Azofeifa, G. *, A. Pfaff, J. Robalino and J. Boomhower (2007). "Costa Rica's Payment for Environmental Services Program: Intention, Implementation and Impact". *Conservation Biology* 21(5):1165-1173.
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- Broad K. *, A. Pfaff* , R. Taddei* with S. Arumugam, U. Lall and F.A. de Souza Filho (2007). "Climate, Stream Flow Prediction and Water Management in Northeast Brazil: societal trends and forecast value". *Climatic Change* 84:217-239.
- Robalino J.A.* and A. Pfaff with G.A. Sanchez-Azofeifa (2007). "Estimating Spatial Interactions in Deforestation Decisions" in (ed.) *Frontiers of Biodiversity Economics*, Cambridge Univ. Press.
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Funding

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.

2010 NSF DMUU (at Columbia Univ.); PI for Ceará and Colombia’s subcontract to Duke (over 5 years). Experiments and surveys on institutional impacts on decisions under climate/water uncertainty.

2010 Tinker Foundation, Institutional Grant (CATIE, \$159,500/2 years); CoPI. Examining the impacts of ecopayments in Costa Rica for motivations and magnitudes of spillovers suggesting new designs.

2010 IAI (Inter-American Institute for Global Change Research) (\$127,100/2 years); PI. Empirical work on the impacts on deforestation of conservation policies, extending prior work with new regions.

2010 Duke U., CCVBP internal grant (2 years, Jim Clark PI); CoPI. Examine empirically links between deforestation and malaria in the Brazilian Amazon, with a focus on both climate and behavior.

2009 IFPRI (International Food Policy Research Institute)(\$30,168/1 year); PI. Examining empirically the responses of rainfed agricultural households to the provision of forecasts of seasonal rainfall.

2009 Duke U., CGC internal grant (\$30,000/1 year); PI. Extending in four ways, each with new coauthor, our field experiments concerning bargaining institutions and water, now carried out in Colombia.

- 2009 NSF DMUU (center extension); PI for Ceará (\$80,217). Group decisions under climate uncertainty, field experiments about bargaining institutions with local water stakeholders in Ceará, NE Brazil.
- 2008 Packard Foundation grant to Duke/Nicholas Institute (\$250,000/6 months); CoI for Lessons Learned, reviewing impacts on deforestation of conservation policies and of other potential policy levers.
- 2008 Tinker Foundation, Institutional Grant (\$140,000/2 years); CoPI. Examine impacts on deforestation of protected areas in Mexico, building upon analysis of land use and park impacts in Costa Rica.
- 2008 Blum Center for Developing Economies (\$50,000 direct costs/1 year with potential extension); CoI. In Tanzania, test strategies for disseminating improved stoves that lower fuel cost and emissions.
- 2007 IAI (Inter-American Institute for Global Change Research) (\$109,850/2 years); PI. Empirical analysis of the impacts on deforestation of conservation policies, focused upon differences by ecosystem.
- 2007 Duke U., CCVBP internal grant (\$50,000/1 year); PI. Examine empirically households' demand for well water arsenic tests as well as their responses to test information provided in different ways.
- 2007 ISERP (Institute for Social and Economic Research and Policy, C.U.) seed grant (\$15,000); CoPI. Examine communication of climate/water forecasts to NE Brazil intermediaries and end users.
- 2007 Columbia U., Earth Institute CCI grant (\$25,000/1 year); CoPI. Examine rainfed agriculture in Ceará to understand climate/water risk management/vulnerability and the potential for use of forecasts.
- 2007 EPA Partnership for Clean Indoor Air (\$200,000/2 years); CoI on Columbia Univ. subcontract from Enterprise Works for air quality monitoring, information intervention and evaluation of impact.
- 2006 Columbia U., Earth Institute CCI grant (\$30,000/1 year); CoI. Examine the acceptability and use of improved stoves in Kenya as a pilot for extended research, with baseline and follow up surveys.
- 2006 NSF Human & Social Dynamics (\$748,296/3 years); CoPI. Model collective action in public goods, with empirical tests based on pilot interventions to supply safe community wells in Bangladesh.
- 2006 FAPERJ/CNPq – NEMESIS (R599,106/3 years); CoI, in a large group, for census-tract deforestation in the Brazilian Amazon. Brazilian research funding for modeling spatial effects in deforestation.
- 2005 NASA 'LBA' (\$278,702 based at Michigan State U./2 years); PI. Econometric analysis of land use. Extends Amazon predictive deforestation model through spatial disaggregation and carbon link.
- 2005 Tinker Foundation, Institutional Grant (\$140,000/2 years); PI. Examine stakeholder views on current and proposed water allocation and water supply and allocation policies in Ceará State, NE Brazil.
- 2004 Social Sciences and Humanities Research Council of Canada (\$84,000/3 years U.Alberta); land PI. Extend analyses of land-use drivers in Costa Rica to examine the impacts of payments and parks.
- 2004 NSF DMUU (\$5.7m/5 years); PI for Ceará (~ \$600,000). Group decisions under climate uncertainty, examining decisions in field experiments with multiple water stakeholders in Ceará, NE Brazil.
- 2004 NOAA OGP CSI (\$448,346/3 years based at U. Miami); CoPI. To analyze impacts upon stakeholder groups in Ceará State, Brazil of changing reservoir releases based upon stream flow forecasts.

- 2002 ISERP (Institute for Social and Economic Research and Policy, Columbia) seed grant (\$15,000); PI. Work in new locations in Bangladesh to study interventions and responses for arsenic in water.
- 2002 NASA ‘LBA’ (\$600,000 based at Michigan State U./3 years); PI. Econometric analysis of land use in the Amazon, yielding deforestation predictive model linked to local, spatial clearing dynamics.
- 2002 Tinker Foundation, Institutional Grant (\$110,000/2 years); PI. Using many spatially detailed datasets, improve on existing analysis of Amazonian deforestation and to start analysis of fragmentation.
- 2001 ISERP (Institute for Social and Economic Research and Policy, Columbia) seed grant (\$10,000); PI. Team building and preliminary analyses for a Brazilian Amazon forests/fragmentation project.
- 2001 FAO (United Nations Food and Agriculture Organization) Letter of Agreement (\$42,000/1 year); PI. Extend Costa Rican forest-carbon analyses to address poverty-environmental-services linkages.
- 2000 NSF – MMIA (Methods & Models in Integrated Assessment) grant (\$700,000 total/3 years); CU PI. Extend carbon-baseline analysis; estimate a carbon sequestration supply function for Costa Rica.
- 2000 NCEAS (National Center for Ecological Analysis and Synthesis (NSF/UCSB)) (\$44,000/2 years); PI. Project meetings to extend our dynamic integrated model of land use and carbon in Costa Rica.
- 2000 Columbia U., Earth Institute grant (\$150,000/30 months); PI with M. Madajewicz. For well arsenic information dissemination in Bangladesh, with baseline survey extension and response survey.
- 1998 Tinker Foundation, Institutional Grant (\$99,000/2 years); PI. Interdisciplinary analysis to develop a carbon-sequestration baseline for Costa Rica in support of the potential for its trading of carbon.
- 1998 NCEAS (National Center for Ecological Analysis and Synthesis (NSF/UCSB)) (\$42,000/2 years); PI. Project meetings for the development of integrated analysis of land use and carbon in Costa Rica.
- 1997 CERC (Center for Environmental Research and Conservation) Interdisciplinary Grant (\$5,000); PI. Join economics & ecology in studying determinants of forest fragmentation in Brazilian Amazon.
- 1996 CERC (Center for Environmental Research and Conservation) Interdisciplinary Grant (\$5,000); PI. To develop an economic and ecological project team to study land use and carbon in Costa Rica.
- 1994 MIT Joint Program on the Science and Policy of Global Change. One year of full-time thesis support to combine satellite and socioeconomic data to study drivers of Brazilian Amazon deforestation.
- 1993 SSRC (Social Science Research Council) IPFP Fellow. Included thesis research in Brazil, 6-12/93. Econometric analysis of Brazilian Amazon deforestation and development of language skills.
- 1990 NSF Graduate Fellow, 3 years of support (received J. Javits award too but could not accept both).

Dissemination: presentations of my research (*from AY1011*)

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) 3rd 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) 2nd 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) 5th 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) 5th 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, 17th 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 10th 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 10th 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 10th 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) 2nd 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 Sustainability 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 (5th), 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

EAERE Workshop, keynote for "Evaluating Forest Conservation Initiatives: new tools and policy needs" workshop, Barcelona, Spain. Presented "Reconciling Rigor and Practicality: roles of context". 12/10/13

Interamerican Development Bank, Conservation Strategy Fund workshop on "Using Economic Tools for Transport Sector Investments", Washington, DC. Presented "Roads' Heterogeneous Impacts". 11/6/13

Interamerican Development Bank, Conservation Strategy Fund workshop "Integrating Ecosystem Services into Project Appraisal", Washington, DC. Presented "Evaluating Environmental Policy Impacts". 11/6/13

European Economic Association meeting, Environmental Economics Session V, Gothenburg, Sweden. Co-author Anna Norden presented "Effects of Exclusion from a Targeted Forest Incentive". 8/28/13

ICCB (Society of Conservation Biology), "Policy Insights from Frontiers of Evidence-based Conservation" double session, Baltimore, MD. Presented "Protected-Area Impacts on Amazonian Deforestation". 7/23/13

EAERE (European Association of Environmental and Resource Economists) summer meeting, Toulouse, France. Co-author Francisco Alpizar presented "Unintended Consequences of Forest Targeting". 6/2013

EfD (Environment for Development network) annual research meeting, Zimbabwe. Co-author Francisco Alpizar presented "Unintended Consequences of Targeting Forest Conservation Incentives". 4/2013

Zoological Society of London, "Protected Areas: are they safeguarding biodiversity?", London, England. Presented land-use policy research overview "Principles for Estimating Protected Area Impact". 11/08/12.

BioEcon, Cambridge University, Cambridge, England. Duke PhD student Diego Herrera presented our research on "Costa Rican & Brazilian Amazon Protected Areas' Differing Forest Spillovers". 9/19/12

Energy Modeling Forum Snowmass Meeting, Spatial Integrated Assessment Session, Aspen. Presented land-use research overview "Econometric Approaches to the Determinants of Deforestation". 7/23/12

European AERE Summer Environmental & Resource Economics conferences, Prague. Duke PhD student Diego Herrera presented our research on "Brazilian Amazon Protected Areas' Forest Spillovers". 6/28/12

AERE Summer Environmental & Resource Economics conferences, Asheville. PhD student Anna Norden presented our research on "Unintended Consequences from Targeting of Eco-services Payments". 6/5/12

AERE Summer Environmental & Resource Economics conferences, Asheville, NC. Presented results in two new papers within the talk "Negative & Positive Local Forest Spillovers from Protected Areas". 6/4/12

Columbia U., Interdisciplinary Workshop in Sustainable Development, New York, NY. Duke PhD student Diego Herrera presented our research on "Brazilian Amazon Protected Areas' Forest Spillovers". 4/20/12

Universidad de los Andes (Distinguished Visitor), Bogota. Presented research overview paper "Protecting Forests, Biodiversity and the Climate: explaining observed variation in policy impact". 4/10/12

Environmental & Energy Policy Forum, Baker Center, U. of Tennessee, Knoxville. Presented "Estimating Avoided Deforestation by Protection Type: can governance + location = forest + livelihoods?". 3/8/12

Association of American Geographers Annual Meeting, "Changing Landscapes, the Amazon to the Andes" sessions, New York, NY. Presented 'Estimating Avoided Deforestation by Protection Type'. 2/26/12.

Oregon State University, Dept. of Agricultural and Natural Resource Economics, Corvallis, OR. Presented the paper 'Estimating Avoided Deforestation by Protection Type' (on Acre & Brazilian Amazon). 2/17/12.

Stanford University, Woods Institute for the Environment with Rockeller Foundation, Alto, CA. Invited participant in Uncommon Dialog concerning 'Ecosystem Services and Human Well Being'. 12/7-8/11.

AGU (American Geophysical Union), in a session on trends in deforestation, San Francisco, CA. Presented the paper "Brazilian Amazon Roads & Parks: temporal & spatial deforestation dynamics". 12/7/11

Stanford University, Woods Institute for the Environment, Palo Alto, CA. Presented the paper “Protecting Forests, Biodiversity and the Climate: explaining observed variation in policy impact”. 12/6/11

Heartland Workshop on Environmental and Resource Economics, Urbana-Champaign, IL. Presented the paper “PA Siting Rules & Brazilian Amazon Deforestation: for whom & by whom matter”. 10/23/11.

University of Wisconsin, Land Tenure Center, “Land Tenure & Forest Carbon Workshop”, Madison, WI. Presented the paper “Estimating Avoided Deforestation by Protection Type”. 10/21/11

University of Wisconsin, Department of Agricultural & Applied Economics, Madison, WI. Presented the paper “Contracts versus Trust in Water Allocation: experimental evidence from NE Brazil” 10/20/11.

AERE Annual Summer Conference, Seattle, WA. Presented paper “Decentralization and Environment-Development Tradeoffs: federal versus state conservation choice & Amazonian deforestation”. 6/10/11

AERE Annual Summer Conference, session on ‘Water’, Seattle, WA. Presented the paper “Contracts versus Trust in Water Allocation: experimental evidence from Northeast Brazil”. 6/9/11.

ICARUS conference on climate adaptation, session on ‘Adaptation & Water Allocation’, Ann Arbor, MI. Coauthor Renzo Taddei gave “Assessing Adaptation with Asymmetric Climate Information”. 5/5/11.

ICARUS conference on climate adaptation, session on ‘Adaptation & Water Allocation’, Ann Arbor, MI. Presented the paper “Contracts versus Trust in Water Allocation”. 5/5/11.

Virginia Tech University, Department of Forest Resources & Environmental Conservation, Blacksburg, VA. Presented the paper “Roads’ Impacts in the Brazilian Amazon”. 4/4/11

COGERH, headquarters of this water agency, Fortaleza, Ceara, Brazil. Coauthor Renzo Taddei presented to technicians tailored details from our ICID session “Allocating Water & Water Information”. 2/4/11.

COGERH, meeting of four water committees of the Jaguaribe and Banabuiú rivers, Limoeiro do Norte. Coauthor Renzo Taddei presented from our ICID “Allocating Water & Water Information”. 1/27/11.

ASSA in AERE (Association of Environmental and Resource Economists) session, Denver, CO. Presented the paper “Roads’ Heterogeneous Forest Impacts: Brazilian Amazon frontier spatial dynamics”. 1/7/11

Duke University, Conservation Strategy Fund's "Tiger Conservation Policy Workshop", Durham, NC. Presented "Evaluating Impacts of Roads and Protected Areas upon Deforestation / Habitat". 11/16/10

GEF (Global Environment Facility), invited presenter at STAP (Scientific and Technical Advisory Panel) workshop, Washington, DC. “Measuring the performance of protected area systems”, 11/1-3/10

GLP (Global Land Project) 2010 Open Science Meeting, Arizona State University, Tempe, AZ. Presented the analyses “Protected Areas and Brazilian Amazon Deforestation: modeling and evaluation”. 10/18/10

UGEC (Urbanization and Global Environmental Change) International Conference, Tempe, AZ. Presented the paper “Roads’ Heterogeneous Forest Impacts: Brazilian Amazon spatial frontier dynamics”. 10/17/10

Yale University / UNITAR Conference on Environmental Governance and Democracy in New Haven, CT. Presented “Inequities in Climate-Adaptation Bargaining” & “Can Contracts Improve Adaptation?” 9/18/10.

ICID: climate, sustainability and development in the semi-arid, Fortaleza, Ceará, Brazil. Presented a session “Allocating Water & Water Information” (seven research talks, with co-author Renzo Taddei). 8/18/10.

World Congress of Environmental and Natural Resource Economists (4th), Montreal. Co-author Luis Diego Herrera presented “Evaluating the Deforestation Impacts of Brazilian Amazon Protected Areas”. 7/1/10.