

ALEXANDER PFAFF

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Employment

2007-	DUKE UNIVERSITY	Public Policy Department, Economics Department and Nicholas School of the Environment & Earth Sciences
	<i>Associate Professor</i>	
2007-	COLUMBIA UNIVERSITY	The Earth Institute <i>Adjunct Research Scholar</i>
2004-07	COLUMBIA UNIVERSITY	The Earth Institute <i>CGSD Executive Director</i>
1995-05	COLUMBIA UNIVERSITY	SIPA / Economics <i>Assistant & Associate Professor</i>

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 1995 Ph.D. Economics

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

Main Advisor: Richard Schmalensee Others: Robert Solow, Robert Stavins, James Poterba

Languages: Portuguese, French

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

Service

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

2005- National Academies (NAS / NRC) Committee on the Human Dimensions of Global Change

2004- Kluwer, Editorial Board for the journal ‘Population and Environment’.

2004-07 NASA SEDAC (Socioeconomic Data / Applications Center), CIESIN User Working Group

2004-07 NCEAS (National Center for Ecological Analysis and Synthesis), Scientific Advisory Board

2003-05 Land Planning Team to integrate LUCC (soc.science) with GCTE (nat.science) land research

Grants

pending NOAA OGP SARP (\$299,214/2 years); CoPI. Test the impact of participatory policy evaluation for water allocation in Ceará, NE Brazil by organizing and tracking a joint system modeling exercise.

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.
- 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.
- 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 NSF DMUU (\$5.7m/5 years); CoI. Studying group decision making under climate/water uncertainty, emphasizing decisions in field experiments by 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 Ceará State Government (\$100,000/1year); lead economist in the interdisciplinary applied team. IRI (International Research Institute for Climate Prediction) climate / water-scarcity project.
- 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 (also received but could not also accept a J. Javits award).

Refereed Research (* = a lead author) (reverse chronology in each subsection; many articles are available on my website)

Land Use & Deforestation

Brazilian Amazon

Pfaff A. *, J.A. Robalino*, R. Walker, E. Reis, S. Perz, C. Bohrer, S. Aldrich, E. Arima, M. Caldas, W Laurance and K. Kirby (2007). “Road Investments, Spatial Intensification and Deforestation in the Brazilian Amazon”. *Journal of Regional Science* 47:109-123.

Pfaff A. * (1999). “What Drives Deforestation in the Brazilian Amazon? Evidence from Satellite and Socioeconomic Data”, *Journal of Environmental Economics and Management* 37(1):26-43.

Costa Rica -- articles

- Pfaff A.* and S. Kerr (forthcoming). "What Would Have Happened? reviewing and improving estimated baselines for tropical forests and sequestered carbon". *Ecological Applications* (invited special issue)
- 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.
- 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.
- Alpizar, F.* , A. Blackman* and A. Pfaff* (2007). "Payments for Ecosystem Services: why precision and targeting matter". *Resources* 165(spring):20-22.
- Pfaff A.* , S. Kerr*, L. Lipper* with R. Cavatassi, B. Davis, J. Hendy and A. Sanchez (2007). "Will Buying Tropical Forest Carbon Benefit The Poor? evidence from Costa Rica". *Land Use Policy* 24:600-610.
- Pfaff A.* and A. Sanchez* (2004). "Deforestation Pressure and Biological Reserve Planning: A Conceptual Approach & An Illustrative Application for Costa Rica". *Resource and Energy Economics* 26:237-254.
- Kerr S.* , S. Liu* , A. Pfaff* and R.F. Hughes (2003). "Carbon dynamics and land-use choices: building a regional-scale, multidisciplinary model." *Journal of Environmental Management* 69:25-37.
- Sanchez-Azofeifa G.A.* , G.C. Daily, A. Pfaff and C. Busch (2003). "Integrity and Isolation of Costa Rica's National Parks and Biological Reserves: examining the dynamics of land-cover change". *Biological Conservation* 109:123-135.
- Pfaff A.* , S. Kerr*, R.F. Hughes, S. Liu, A. Sanchez, D. Schimel, J. Tosi, V. Watson (2000). "The Kyoto Protocol & Payments for Tropical Forest: An Interdisciplinary Method for Estimating Carbon-Offset Supply and Increasing the Feasibility of a Carbon Market under the CDM". *Ecol. Econ.* 35(2):203.

Costa Rica -- chapters

- Pfaff, A.* and J.A. Robalino* (accepted) "Payments for Environmental Services: overview of empirical analyses". Chapter for the volume 'Avoided Deforestation: Prospects for Mitigating Climate Change'.
- Pfaff A.* and S. Kerr* with R. Cavatassi, B. Davis, L. Lipper, A. Sanchez and J. Timmins (forthcoming). "Effects of Poverty on Deforestation: distinguishing behavior from location" in (ed.) *Economics of poverty, environment and natural resource use*, Wageningen University Environment / Resources.
- 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.
- Kerr S.* , A. Pfaff*, G.A. Sanchez-Azofeifa* and M. Boscolo (2001). "How Can Carbon Sequestration in Tropical Forests Be Rewarded? Evidence from Case Of Costa Rica", in *Central America Project, Environment: Conservation and Competitiveness*, HIID, Harvard University Press, Cambridge, MA.

Kerr S. *, A. Pfaff* and G.A. Sanchez-Azofeifa* (2001). "The Dynamics of Deforestation and the Supply of Carbon Sequestration: Illustrative Results from Costa Rica", in Central America Project, Environment: Conservation and Competitiveness, HIID, Harvard University Press, Cambridge, MA.

United States

Pfaff A. * (2000). "From Deforestation to Reforestation in New England, USA", in Palo, Matti and Heidi Vanhanen, eds. Global Prospects of Deforestation and Forest Transition, Kluwer.

Water & Climate

Water Quantity & Climate Forecasts (NE Brazil drought, Peru fishery)

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.

Broad K. *, A. Pfaff* and M.H. Glantz (2002). "Effective & Equitable Dissemination of Seasonal-to-Interannual Climate Forecasts: policy implications from the Peruvian fishery during El Nino 1997-98". Climatic Change 54(4):415-438.

Pfaff A. * and D.M. Peteet* (2001). "Generating Probabilities in Support of Societal Decision Making: the case of abrupt climate change". EOS (American Geophysical Union), May 15, 2001.

Pfaff A. *, K. Broad* and M.H. Glantz* (1999). "Who benefits from seasonal-to-interannual climate forecasts?" Nature 397(6721):645-646, February 25th.

Water Quality & Well Testing (Bangladesh arsenic)

Chen, Y. *, A. van Geen, J. Graziano, A. Pfaff, M. Madajewicz, F. Parvez, I. Hussain, V. Slavkovich, T. Islan and H. Ahsan* (2007). "Reduction in Urinary Arsenic Levels in Response to Arsenic Mitigation Efforts in Araihaazar, Bangladesh". Environmental Health Perspectives 115(6):917-923.

Opar A. *, A. Pfaff*, A.A. Seddique, K.M. Ahmed, J.H. Graziano, and A. van Geen* (2007). "Responses of 6500 Households to Arsenic Mitigation in Araihaazar, Bangladesh". Health & Place 13:164.

Madajewicz M. *, A. Pfaff*, J. Graziano, A. van Geen, I. Hussein, H. Momotaj, R. Sylvi, and H. Ahsan (2007). "Can Information Alone Both Improve Awareness and Change Behavior? Arsenic contamination of groundwater in Bangladesh". Journal of Development Economics 84:731-754.

Ahmed, M.F. *, S. Ahuja, M. Alauddin, S.J. Hug, J.R. Lloyd, A. Pfaff, T. Pichler, C. Saltikov, M. Stute and A. van Geen* (2006). "Ensuring Safe Drinking Water in Bangladesh". Science 314: 1687-88.

Madajewicz M. * and A. Pfaff* (2004). "Social Survey Data", in Rosenboom, J. ed. Not Just Red or Green: an analysis of arsenic data from 15 upazilas of Bangladesh. UNICEF Arsenic Policy Support Unit.

Air Quality & Energy

Pfaff A. *, S. Chaudhuri* and H. Nye (2004). "Household Production & Environmental Kuznets Curves: examining the desirability and feasibility of substitution". Envir & Resource Economics 27(2):187-200.

Pfaff A. *, P. Borelli and S. Chaudhuri (2004). "Aid, Economic Growth and Environmental Sustainability: rich-poor interactions and environmental choices in developing countries". *Int'l J. of Global Environmental Issues* 4:139-159 (special issue on growth and environment, submission invited)

Pfaff A. *, S. Chaudhuri* and H. Nye (2004). "Endowments, Preferences, Technologies and Abatement: growth-environment microfoundations". *Int'l J. of Global Environmental Issues* 4:209-228 (invited)

Information & Regulation

Pfaff A. * and C.W. Sanchirico* (2004). "Big Field, Small Potatoes: An Empirical Assessment of EPA's Self-Audit Policy". *Journal of Policy Analysis & Management* 23(3):415-432.

Graff Zivin J.* and A. Pfaff* (2004). "To Err on Humans is not Benign: Incentives for Adoption of Medical Error Reporting Systems". *Journal of Health Economics* 23:935-949.

Kahn M.E.* and A. Pfaff* (2000). "Informal Economies, Information and the Environment". *Journal of International Affairs* 54(2):525-544.

Pfaff A. * and C.W. Sanchirico* (2000). "Environmental Self-Auditing: Setting the Proper Incentives for Discovery and Correction of Environmental Harm". *J. Law, Economics & Organization* 16(1):189-208.

Research -- revise & resubmit

Pfaff A. *, R. Walker, S. Perz, W. Laurance, C. Bohrer, J.A. Robalino, S. Aldrich, E. Arima, M. Caldas and K. Kirby. "Roads & Deforestation in the Brazilian Amazon".

Robalino J.A.* and A. Pfaff. "Contagious Development: neighbors' interactions in deforestation".

Pfaff, A. *, J.A. Robalino*, G.A. Sanchez-Azofeifa, K. Andam and P. Ferraro. "Location Affects Protection: observable characteristics drive park impacts in Costa Rica". Duke University.

Kerr S. *, J. Hendy*, S. Liu* and A. Pfaff*. "Tropical Forest Protection, Uncertainty, and Environmental Integrity of Carbon Mitigation Policies".

Pfaff A. * and R. Walker* . "Regional Interdependence and Forest Transitions: forest loss elsewhere limits local transitions' global relevance".

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

Research -- submitted

Kerr S. * and A. Pfaff* . "Development and Deforestation: Evidence from Costa Rica".

Pfaff, A. *, A. Barbieri, T. Ludewigs, F. Merry, S. Perz and E.J. Reis. "The Impact of Roads in the Process of Deforestation". Chapter for edited NASA LBA volume 'Amazonia and Global Change'

Kunreuther, H.C. *, A. Pfaff * and H. Yin*. "Can Environmental Insurance Succeed Where Others Fail? the case of underground storage tanks". Mimeo, University of Pennsylvania.

Research – papers in progress

Land Use & Deforestation

Costa Rica

Pfaff, A. *, J.A. Robalino* and G.A. Sanchez-Azofeifa. “Payments for Environmental Services: empirical analysis for Costa Rica 1997-2000”. (presented at NBER 7/24/07)

Robalino, J. *, A. Pfaff *, A. Sanchez, F. Alpizar, C. Leon, and C.M. Rodriguez. “Deforestation Impacts of Environmental Services Payments: Costa Rica’s PSA Program 2000-2005”. (presented at the World Bank, workshop on economics of REDD, 5/27/08)

Robalino, J.A. * and A. Pfaff* et al. “Spatial Spillovers from Parks in Costa Rica”. Mimeo, CATIE. (presented at BioEconX conference, Cambridge University, Cambridge, England, 9/29/08)

Brazilian Amazon

Pfaff, A. *, J.A. Robalino *, S. Perz, R. Walker et al. “Development, Roads and Deforestation in the Brazilian Amazon: an empirical view across decades”. (presented at LBA Brasilia 10/06)

Pfaff, A. * and J.A. Robalino et al. “Prior Conditions and New Roads’ Impacts in the Brazilian Amazon: the existing setting affects investments’ impacts on the frontier” (to be presented at LBA 11/08)

Robalino, J.A. * and A. Pfaff et al. “Evaluating New Roads’ Impacts on the Brazilian Amazon Frontier: controlling for non-random allocation of road investments”. CATIE. (to be presented at LBA 11/08)

Mexico (& neighbors)

Zepeda*, Y., A. Blackman, A. Pfaff and J. Robalino. “Evaluating The Impacts of Mexican Protected Areas on Deforestation 1993-2000”. (to be presented at EfD Beijing conference 11/08)

Amor*, D. and A. Pfaff*. “Sequenced Road Investments and Clearing of the Mayan Forest”. (to be presented at LBA’s ‘Amazon In Perspective’, 11/08, alongside related Amazonian evidence)

Peru (& neighbors)

Delgado*, C., D. Amor, J. Sexton, and A. Pfaff. “Shorter and Longer-Run Road Impacts On Frontier Deforestation” (to be presented at the NASA LBA conference ‘Amazon In Perspective’ 11/08)

Delgado*, C., D. Amor, J. Sexton, and A. Pfaff. “Will Nearby Protected Areas Constrain Road Impacts On Deforestation?” (to be presented at the NASA LBA conference ‘Amazon In Perspective’ 11/08)

Water & Climate

Water Quantity & Climate Forecasts (NE Brazil drought)

Mueller, V. *, A. Pfaff *, K. Broad, J. Hercio, H. Kazianga and R. Taddei. “Drought’s Impacts in Irrigated Rural Northeast Brazil: who is vulnerable, how much, and why?”. (accepted to present, SEA 12/08)

Small, A. *, D. Osgood, A. Pfaff. “Resource Allocation and Investment Coordination under Uncertainty”. (presented at Pennsylvania State University 11/06)

Pfaff, A. *, Fonseca, M., and D. Osgood. “Coordinating Investment Under Uncertainty: examining the gains from an ex-ante queue” (presented at Columbia University 05/08)

Fonseca, M. *, A Pfaff *, K. Broad and R. Taddei. “Selfish and More: distinguishing multiple motivations for preferences over outcomes distributions”. (presented at Columbia University 05/08)

Pfaff, A. *, M.A. Velez *, K. Broad, J. Hercio, R. Taddei. “Water Bargaining & Climate Adaptation: asymmetric access to information affects equity” (presented at IU’s experimental group 03/08)

Pfaff, A.* and M.A. Velez *. “The Power of Not Knowing: uncertainty affects equity in bargaining field experiments” (presented at The World Bank, environmental/resource economics seminar 5/7/08)

Pfaff, A. *, M.A. Velez * et al. “Bargaining When Trust Is Productive: the value of social institutions” (to be presented at Indiana University in the workshop in political theory and policy analysis 06/09)

Water Quality & Well Testing (Bangladesh arsenic)

Schoenfeld, A., A. Pfaff and L. van Geen. “Area, Village, and Household Response to Arsenic Testing and Labeling of Tubewells in Araihasar, Bangladesh”. (presented at The World Bank 4/10/08)

Madajewicz M. *, A. Pfaff* and J. Robalino. “Do Neighbors’ Actions Affect A Household’s Decision To Seek Safe Water? Evidence from the arsenic crisis in Bangladesh”. (presented at NEUDC 9/05)

Balasubramanya, S., L. Benneer, A. Pfaff and A. Tarozzi. “ Responses to Environmental Information: evidence from a household survey in Bangladesh”. (presented at CENREP 9/08 and BREAD 9/08)

Air Quality & Energy

Mueller, V. *, A. Pfaff*, J. Peabody, Y. Liu, T. Riddell and K.R. Smith. “Evaluating Exposure & Disease Impacts of Improved Stoves in China”. (to be presented at The World Bank, evaluation unit 2/09)

Mueller, V. *, A. Pfaff*, J. Peabody, Y. Liu, T. Riddell and K.R. Smith. “Evaluating Impacts of Improved Stoves in China on Self Reported Health Using Matching”. (presented at ASSA 1/08, AERE 6/08)

Chaudhuri S.* and A. Pfaff*. “Economic Growth and Environmental Policy: voting implications of shifts in households’ marginal preferences”. (presented at Yale University 10/22/03)

Information & Regulation

Pfaff, A. * and K. Rao *. “Incentives to Self Report: regulatory treatment of voluntary disclosures”. (presented at the Third Environmental Economics World Congress, 2006, in Kyoto, Japan)

Rao, K. *, A. Pfaff, M. Isanuk, J. Lee, D. Prager, N. Tarui. “What Drives Environmental Self-Reporting? roles of past and future regulatory effort”. (also at 3rd Environmental Economics World Congress)

Research -- other reports

Taddei R. *, K. Broad and A. Pfaff (forthcoming). "Integrating Climate and Water Management in Ceará: background, social and legal structures, and implications" in IRI-FUNCEME Ceará Project book.

Andam, K. *, P. Ferraro*, A. Pfaff and A. Sanchez (2007). "Protected Areas and Avoided Deforestation: A Statistical Evaluation". Report of GEF (the Global Environmental Facility of World Bank & UNEP)

Meyerson, L.A, J. Baron, , J. Melillo, R.J. Naiman, R. O'Malley, G. Orians, M. Palmer, A. Pfaff., S.W. Running, O. Sala. (2005). "Aggregate Measures of Ecosystem Services: can we take the pulse of nature?" *Frontiers in Ecology* 3(1):56-59.

Pfaff A.* and R.N. Stavins* (1999). "Readings in the Field of Natural Resource and Environmental Economics". SSRN Working Paper (1,995 downloads as of the end of 2007)

Teaching

Duke University

Fall 2008 / Spring 2009: Political Economy (501 in fall, 502 in spring; core course for PhD students)

Spring 2008: Intermediate Microeconomics (128) & Economics of Sustainable Development (264)

Fall 2007, 2008: Collective Action, Development & Environment and Natural Resources (195S.10)

Columbia University

Environment/Resource 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.

Advising

Post Doctoral Juan Robalino, Valerie Mueller, Harounan Kazianga, Miguel Fonseca, Maria Alejandra Velez, Nori Tarui, Darby Jack, Florence Kondylis

PhD Students Amin Khalaf, Juan Robalino, Bruce Chadwick, Renzo Taddei, Dalia Amor, Soumya Balasubramanya, Kwaw Andam, Madeleine Baker, Kennedy Souza

MA Students Mayumi Kawaii, Ben Harris, Hamid Rashid, Tara de Porte, Alisa Opar, Amy Schoenfeld, Alex Tollette, Yaniv Nadar, Cesar Delgado, Nicholas Hurwit

BA Students Ankur Kapoor, Dorothy Hwang, Stephan Whitaker, John Lee, Daniel Prager, Howard Nye, Krishna Rao, Matthew Isanuk

CU Programs BA advisor, Economics, including for theses and an original joint major on environment
PhD advisor for social & policy, EEEB (Ecology, Evolution and Environmental Biology)

Recent Presentations (1/06 - 11/08)

NASA LBA (Long-term Biosphere experiment in the Amazon) 'Amazon In Perspective', Manaus, Brazil. Will present the paper "Road Investments, Their Contexts, and Their Deforestation Impacts" 11/17/08

ETH, Center for Energy Policy and Economics, Zurich, Switzerland. Presented the paper "Water Bargaining & Climate Adaptation: evidence from field experiments on uncertainty and institutions". 10/3/08

Cambridge University, BioEconX conference, Cambridge, England. Presented the paper "Deforestation Impacts of Environmental Services Payments: lessons from evolution of the Costa Rican PSA". 9/30/08

Cambridge University, BioEconX conference, Cambridge, England. Presented the paper "Location Affects Protection: observables' effects on deforestation impacts of protected areas in Costa Rica". 9/30/08

AERE Workshop 2008: Health and the Environment, Berkeley, CA. Co-author Valerie Mueller presented "Evaluating Health Impacts of Improved Stoves in China Using Matching" 6/23/08

EAERE (European Association of Environmental & Resource Economics), Gothenburg, Sweden. Co-author Juan Robalino presented the paper "Deforestation Impacts of Environmental Services Payments". 6/25/08

World Bank, REDD Economics Workshop, Washington, D.C. Presented a summary of multiple papers entitled "Evaluating Policy Impacts on Tropical Deforestation: implications for REDD costs" 5/27/08

World Bank, Seminar Series in Environmental and Resource Economics, Washington, D.C. Presented the paper "Water Bargaining & Climate Adaptation: evidence from field experiments on institutions" 5/7/08

World Bank, Measuring Development Effectiveness in Environment Workshop, Washington, D.C. Presented a summary of many empirical evaluation efforts (deforestation, air quality, water quality/quantity) 4/10/08

Indiana University, experimental group, Bloomington, IN. Co-author Maria Alejandra Velez presented the combination of papers "Asymmetric & Symmetric Uncertainty in Bargaining Field Experiments" 3/08

Moore Foundation / Conservation Strategy Fund / Resources For the Future Dialogue, San Francisco, CA, "Economics and Conservation in the Tropics". Invited speaker, targeting conservation incentives 2/1/08

LACEEP (Latin American and Caribbean Environmental Economics Program), Turrialba, Costa Rica. Presented capacity-building lectures in "Environmental and Resource Economics Training" 1/6-7/08

ASSA Environment/Resource Economics session, New Orleans, LA. Co-author Valerie Mueller presented "Evaluating Health Impacts of Improved Stoves in China Using Matching" 1/5/08

Triangle Resource and Environmental Economics Workshop, Raleigh, NC. Presented preliminary results from ongoing experimental work on "Strategic Fairness, Trust and Water in Northeast Brazil" 9/27/07

National Bureau of Economic Research, Summer Institute – Environmental Economics, Cambridge, MA. Presented the paper "Payments for Environmental Services: empirical analysis for Costa Rica" 7/24/07

Resources For the Future, Washington, D.C. Presented the paper "Payments for Environmental Services: empirical analysis for Costa Rica" (with analyses also for parks' impacts in Costa Rica) 11/29/06

Harvard - MIT Joint Seminar on Environmental Economics and Policy, Cambridge, MA. “Payments for Environmental Services: empirical analysis for Costa Rica” (with analyses also for parks) 11/08/06

Yale University, Environmental Economics Seminar, New Haven, CT. Presented the paper “Payments for Environmental Services: empirical analysis for Costa Rica” (with analyses also for parks) 10/18/06

NASA LBA (Long-term Biosphere experiment in the Amazon) -- 10th Science Meeting, Brasilia, Brazil. Presented “Econometric Estimation of Deforestation Impacts from Roads and Other Drivers” 10/6/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. Co-author J.A. Robalino presented “Spillover Effects of Protected Areas in Neighboring Forest” 7/5/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. “Policies’ Impacts on Costa Rican Deforestation” (parks contributions from P. Ferraro & K. Andam) 7/5/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. Presented “Payments for Environmental Services: empirical analysis for Costa Rica” 7/5/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. Co-author J.A. Robalino presented “Deforestation Is Contagious: evidence of spatial interactions in Costa Rica” 7/5/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. Presented “Incentives to Self Report: regulatory responses to ‘voluntary’ disclosures” 7/4/06

Third World Congress of Environmental and Natural Resource Economists, Kyoto, Japan. Presented “Can Information Along Change Behavior? Arsenic contamination of drinking water in Bangladesh” 7/4/06

Economics of Poverty, Environment and Natural Resource Use conference, Wageningen Univ., Holland. Presented the paper “Effect of Poverty on Deforestation: distinguishing behavior from location” 5/19/06

Economics of Poverty, Environment and Natural Resource Use conference, Wageningen Univ., Holland. Presented the paper “Payments for Environmental Services: empirical analysis for Costa Rica” 5/18/06

FONAFIFO (national forestry agency), San Jose, Costa Rica. Presented “Land Use and Deforestation in Costa Rica: projecting carbon baselines and measuring impacts of ecosystem services payments” 5/4/06

National Bureau of Economic Research, Envir. Economics, Cambridge, MA. “Can Information Alone Change Behavior? Responses to arsenic contamination of groundwater in Bangladesh” 4/7/06

ACS (American Chemical Society), Atlanta, GA. Invited participant in the policy consensus workshop “Assuring Water Purity: remediation and implementation” about arsenic in Bangladesh 3/30/06

New York Times Institute on the Environment, Punta Cana, Dominican Republic. Presented “Environment, Economics and People: working from people’s choices to evaluation of environmental policies” 3/22/06

Duke University, Terry Sanford Institute, Durham, NC. Presented the paper “Can Information Alone Change Behavior? Responses to arsenic contamination of groundwater in Bangladesh” 2/8/06

UCLA (University of California Los Angeles) – IOE (Institute of the Environment), Los Angeles, CA. Presented the paper “Policy Impacts on Deforestation: starting from people’s choices” 1/26/06