

Jonah Busch, Ph.D.

Senior Fellow, Center for Global Development
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(last updated September, 2016)

Education

University of California, Santa Barbara, Santa Barbara, CA
Ph.D. in Economics and Environmental Science, 2008

University of California, Santa Barbara, Santa Barbara, CA
M.A. in Economics, 2004

Indiana University, Bloomington, IN
B.A. with distinction in Mathematics, Geography, Environmental Studies; Minor in Economics, 2000

Employment

Center for Global Development, Washington, DC
Senior Fellow, 2016-present
Research Fellow, 2013-2015

Conservation International, Arlington, VA
Climate and Forest Economist, 2010-2013
Post-doctoral Fellow, Economics of Climate Change and Biodiversity, 2008-2010
Economic Consultant, 2005-2008

Peace Corps, Gourcy, Burkina Faso
High School Math Teacher, 2000-2002

Other Professional Activity

Center for Effective Global Action, University of California, Berkeley, CA
Visiting Scholar, 2016-present

Center for Carbon Removal, Oakland, CA
Advisory Board, 2016-present

Conservation Letters, A journal of the Society for Conservation Biology
Editorial Board, 2013-present

Carbon Fund, Forest Carbon Partnership Facility, World Bank, Washington, DC
Technical Advisor, 2012-2013

Global Environment Facility, Washington, DC
Technical Advisor, Sustainable Forest Management, 2013
Economic Consultant, 2007, 2009

Monterey Institute of International Studies, Monterey, CA
Adjunct Professor, 2012

Office of the President, Georgetown, Guyana
Special Advisor to the President for Carbon and Climate Change, 2009

Environmental Defense Center, Santa Barbara, CA
Economic Analyst, 2003-2006

Publications

Peer-Reviewed Articles

- Busch, J. and Ferretti-Gallon, K. (accepted) “What drives deforestation and what stops it? A meta-analysis of spatially explicit econometric studies” *Review of Environmental Economics and Policy*.
- Goetz, S.J., Hansen, M., Houghton, R.A., Walker, W., Laporte, N., Busch, J. (2015) “Measurement and Monitoring for REDD+: The Needs, Current Technological Capabilities and Future Potential” *Environmental Research Letters* 10:123001.
- Pelletier, J., Busch, J., Potvin, C (2015) “Addressing uncertainty upstream or downstream of accounting for emissions reductions from deforestation and forest degradation” *Climatic Change* doi:10.1007/s10584-015-1352-z
- Busch, J., Ferretti-Gallon, K., Engelmann, J., Wright, T., Austin, K., Stolle, F., Turubanova, S., Potapov, P., Margono, B., Hansen, M., Baccini, A. (2015) “Reductions in emissions from deforestation from Indonesia’s moratorium on new oil palm, timber, and logging concessions” *Proceedings of the National Academy of Sciences of the United States of America*. doi: 10.1073/pnas.1412514112
- Yang, B., Busch, J., Zhang, L., Ran, J., Gu, X., Zhang, W., Du, B., Xu, Y., Mittermeier, R.A. (2014) “China’s collective forest tenure reform and the future of the giant panda.” *Conservation Letters*. doi: 10.1111/conl.12143
- Andersen, L., Busch, J., Curran, C., Ledezma, J.C., Mayorga, J., Ruiz, P. (2014) “Environmental and socio-economic consequences of forest carbon payments in Bolivia: Results of the OSIRIS-Bolivia model.” *Latin American Journal of Economic Development* 22:7-48.
- Busch, J. (2013) “Supplementing REDD+ with biodiversity payments: The paradox of paying for multiple ecosystem services.” *Land Economics* 89(4):655-675.
- Busch, J. and Grantham, H. (2013) “Parks vs. payments: reconciling divergent strategies for addressing biodiversity loss and climate change from tropical deforestation.” *Environmental Research Letters* 8:034028.
- Yang, B., Busch, J., Zhang, L., Ran, J., Gu, X., Zhang, W., Du, B., Mittermeier, R. (2013) “Eco-compensation for giant panda habitat.” *Science* 339:521. (letter)
- Busch, J., Ahumada, J., de Koning, F., Harvey, C.A., Hewson, J., Hole, D., Honzak, M., Panfil, S.N., Pidgeon, E., Portela, R., Steininger, M., Tabor, K., Turner, W.R. (2013) “Research spotlight: Designing nature-based mitigation to promote multiple benefits.” *Carbon Management* 4(2):129-133.
- Busch, J., Lubowski, R., Godoy, F., Steininger, M., Yusuf, A., Austin, K., Hewson, J., Juhn, D., Farid, M. and Boltz, F. (2012). “Structuring economic incentives to reduce emissions from deforestation within Indonesia.” *Proceedings of the National Academy of Sciences of the United States of America* 109(4):1062-1067.
- Busch, J., Dave, R., Hannah, L., Cameron, A., Rasolohery, A., Roehrdanz, P. and Schatz, G. (2012). “Climate change and the cost of conserving species in Madagascar.” *Conservation Biology* 24(3):408-419.
- Busch, J., Godoy, F., Turner, W. and Harvey, C. (2011). “Biodiversity co-benefits of reducing emissions from deforestation under alternative reference levels and levels of finance.” *Conservation Letters* 4(2):101-115.
- Cattaneo, A., Lubowski, R., Busch, J., Creed, A., Strassburg, B., Boltz, F. and Ashton, R. (2010). “On international equity in reducing emissions from deforestation.” *Environmental Science and Policy* 13(8):742-753.
- Busch, J., Strassburg, B., Cattaneo, A., Lubowski, R., Bruner, A., Rice, R., Creed, A., Ashton, R. and Boltz, F. (2009). “Comparing climate and cost impacts of reference levels for reducing emissions from deforestation.” *Environmental Research Letters* 4:044006.

- Busch, J. (2009). “Surfer and beachgoer responsiveness to coastal water quality warnings.” *Coastal Management* 37:529-549.
- Busch, J. and Cullen, R. (2009). “Effectiveness and cost-effectiveness of yellow-eyed penguin recovery.” *Ecological Economics* 68(3):762-776.
- Busch, J. (2008). “Gains from configuration: The transboundary protected area as a conservation tool.” *Ecological Economics* 67(3):394-404.
- da Fonseca, G.A.B., Rodriguez, C.M., Midgley, G., Busch, J., Hannah, L. and Mittermeier, R.A. (2007). “No forest left behind.” *PLoS Biology* 5(8):1645-1646.

Books and Book Chapters

- Seymour, F. and Busch, J. (forthcoming, 2016) *Why Forests? Why Now? The Science, Economics, and Politics of Tropical Forests and Climate Change*. Brookings Institution Press, Washington, DC.
- Busch, J., Helmy, F., Lubowski, R., Farid, M., Boltz, F. (2011). Indonesia’s climate change commitment and the critical role of REDD+: Findings of the OSIRIS-Indonesia model. In: DNPI Green Review on REDD+. Indonesia National Council on Climate Change (DNPI), Jakarta, Indonesia, 199pp.
- Busch, J. (2010). “Supplementary biodiversity payments for REDD+.” In: The Little Biodiversity Finance Book. Global Canopy Programme, Oxford, UK. (box text)
- Busch, J. and Gomez-Mira, C. (2002). *Mooré Made Simple: An Introductory Language Manual for Peace Corps Volunteers*. Peace Corps Burkina Faso, Ouagadougou, Burkina Faso, 63pp.
- Busch, J. and Kang, A. (2001). *Peace Corps Burkina Faso Survival Phrasebook: Mooré*. Peace Corps Burkina Faso, Ouagadougou, Burkina Faso, 33pp.

Policy Papers and Reports

- “Look to the Forests: How Performance Payments Can Slow Climate Change.” Working group report. 74 pp. Center for Global Development, Washington, DC. (working group member)
- Busch, J. and Engelmann, J. “The future of forests: emissions from tropical deforestation with and without a carbon price, 2016-2050.” Working Paper #411. Center for Global Development, Washington, DC.
- Goetz, S.J., Hansen, M., Houghton, R.A., Walker, W., Laporte, N., and Busch, J. (2014) “Measurement and Monitoring for REDD+: The Needs, Current Technological Capabilities and Future Potential” Working Paper #392. Center for Global Development, Washington, DC.
- Ferretti-Gallon, K. and Busch, J. (2014) “What drives deforestation and what stops it? A meta-analysis of spatially explicit econometric studies” Working Paper #361. Center for Global Development, Washington, DC.
- Murray, B., Busch, J., Woodward, R. T. and Jenkins, W. A. (2013), “Designing cap and trade to correct for non-additional offsets.” Duke Environmental Economics Working Paper EE 10-03 V2.
- “Non-Carbon Benefits.” (2012) FCPF Carbon Fund Discussion Paper. Forest Carbon Partnership Facility and World Bank Carbon Finance Unit, Washington, DC. (unnamed author)
- “Reference Levels and Additionality.” (2012) FCPF Carbon Fund Discussion Paper. Forest Carbon Partnership Facility and World Bank Carbon Finance Unit, Washington, DC. (unnamed author)
- Albán, M., Ulloa, R., Busch, J., Barrera, L., Vollberg, C., Suárez, L., de Koning, F. (2012) “National level evaluation of financing needs for the implementation of the Aichi Biodiversity Targets in Ecuador.” Ministry of

Environment Ecuador, Conservation International Ecuador, Secretariat of the Convention on Biological Diversity. Quito, Ecuador. 35pp.

Andersen, L., Busch, J., Curren, E., Ledezma, J.C., Mayorga, J. and Bellier, M. “Environmental and socio-economic consequences of forest carbon payments in Bolivia: Results of the OSIRIS-Bolivia model.” Development Research Working Paper Series 02/2012. Institute for Advanced Development Studies (INESAD), La Paz, Bolivia.

Andersen, L., Busch, J., Curren, E., Ledezma, J.C., Mayorga, J., Junco, P.R. (2012) “Mecanismos de Reducción de Deforestación.” Síntesis: Boletín Informativo del Instituto de Estudios Avanzados en Desarrollo N° 1, June 2012. Institute for Advanced Development Studies (INESAD), La Paz, Bolivia.

“Case studies of the difference in cost of implementing REDD+ activities with or without biodiversity safeguards in Indonesia and Madagascar.” In: Making biodiversity safeguards for REDD+ work in Practice: Developing operational guidelines and identifying capacity requirements. UNEP-WCMC, May 2011. (analytical contributor)

Morris, D., Busch, J. and Boltz, F. (2011). “Geographically prioritizing appropriations for the sustainable landscapes program.” Issue Brief 11-01. Resources for the Future, Washington, DC. 7pp.

Busch, J., Helmy, F., Farid, M., Lubowski, R., Boltz, F., Sukadri, D. (2010). “Economic Incentive Policies for REDD+ in Indonesia: Findings from OSIRIS model. Policy Memo No 2/2010.” National Council on Climate Change (DNPI), Jakarta, Indonesia. 24pp.

“Options for setting reference levels.” In: Angelsen, et al. (2009). Reducing Emissions from Deforestation and Degradation (REDD): An Options Assessment Report. Prepared for the Government of Norway. Meridian Institute, Washington, DC. 100 pp. (analytical contributor)

Suich, H., Busch, J., and Barbancho, N. (2006). “Economic impacts of transfrontier conservation areas: Baseline of tourism in the Kavango-Zambezi TFCA.” Conservation International South Africa, Cape Town, South Africa, 69pp.

Policy Briefs and Public Comments

“Strong Support for Accelerating Sector-Based Credits for Tropical Forest Protection.” Public comment to California Air Resources Board. September, 2016.

“Support for Sector-Based Crediting for Tropical Forests in California’s Cap-and-Trade Program.” Letter to Governor Edmund G. Brown, Jr. from the Center for Global Development’s Working Group on Scaling Up Performance-Based Transfers for Reduced Tropical Deforestation. June, 2016

“Support for ARB staff thinking on technical design elements of sectoral crediting for tropical forests.” Public comment to California Air Resources Board on sectoral offset credits tropical forests in California’s cap-and-trade program. April, 2016

“Eight Reasons for California to Lead on Climate and Forests.” Public comment to California Air Resources Board on sectoral offset credits tropical forests in California’s cap-and-trade program. October, 2015

“External Expert Review of Reference Level Proposal for Guyana’s REDD+ Program.” January 2014.

“Joint Comment on Forest Carbon Partnership Facility Readiness Fund FMT Note 2011-14, Component 3; Readiness Package Content and Assessment Approach: Reference Emissions Level/Reference Level.” Conservation International/Environmental Defense Fund/The Nature Conservancy/Union of Concerned Scientists/World Wildlife Fund. September 2012.

“Policy recommendations for Indonesia’s REDD+ strategy.” Policy brief to President Susilo Bambang Yudhoyono. Indonesia National Council on Climate Change (DNPI). November 2010.

- Lubowski, R., Walker, D., Busch, J., Janson-Smith, T. (2010). "Comments to California Air Resources Board on Sector-Based Crediting and Subnational Reducing Emissions from Deforestation and Degradation (REDD) as part of California's Cap-and-Trade Program."
- Busch, J. and Lubowski, R. (2010). "Preliminary quantitative analysis of REDD potential in four Indonesian provinces and five Brazilian states." Conservation International and Environmental Defense Fund.
- Busch, J. and Bishop, A. (2009). "REDD+ Preparatory Brief." Prepared for UNFCCC COP 15, Office of Climate Change, Office of the President, Guyana.
- Busch, J. (2009). "Presidential Brief #4." Prepared for His Excellency, Bharrat Jagdeo, President of Guyana.
- Busch, J. (2009). "Presidential Brief #3." Prepared for His Excellency, Bharrat Jagdeo, President of Guyana.
- Busch, J. (2009). "Presidential Brief #2." Prepared for His Excellency, Bharrat Jagdeo, President of Guyana.
- Busch, J. (2009). "Presidential Brief #1." Prepared for His Excellency, Bharrat Jagdeo, President of Guyana.
- Busch, J. and Bruner, A. (2009). "An investment strategy for the Tropical Forest Account in Global Environment Facility 5." 19pp.
- Busch, J. and da Fonseca, G.A.B. (2007). "An investment strategy for the Global Environment Facility Tropical Forest Account." 19pp.
- Busch, J. (2007). "Avoided deforestation, the Kyoto Protocol, and low deforestation countries: Recommendations for Conservation International." 14pp.
- Kraus, K., Trautwein, B. and Busch, J. (2006). "Public comment on economic impact of critical habitat designation for the Red-Legged Frog in 23 California Counties." Environmental Defense Center, Santa Barbara, CA, 25pp.
- Kraus, K. and Busch, J. (2004). "Public comment on draft economic analysis of critical habitat designation for the California Tiger Salamander." Environmental Defense Center, Santa Barbara, CA, 16pp.

Software

- Eastman, J. R. (2014). TerrSet: Geospatial Software for Monitoring and Modeling the Earth System. Worcester, Mass.: Clark University. (unnamed contributor)
- Busch, J., Lubowski, R., Hewson, J., Godoy, F. and Mendoza, E. (2011). Open Source Impacts of REDD+ Incentives Spreadsheet – Peru (OSIRIS-Peru). Version 1.0.
- Andersen, L. E., Busch, J., Curran, E., Ledezma, J. C. and Mayorga, J. (2011). Open Source Impacts of REDD+ Incentives Spreadsheet – Bolivia (OSIRIS-Bolivia). Version 2.1.
- Andersen, L. E., Busch, J., Ledezma, J. C., Curran, E., Mayorga, J. and Ruiz Junco, P. (2011). Conservation Incentives Spreadsheet – Bolivia (CISS-Bolivia). Version 2.1.
- Busch, J., Godoy, F. and Rasolohery, A. (2011). Open Source Impacts of REDD+ Incentives Spreadsheet – Madagascar (OSIRIS-Madagascar). Beta.
- Busch, J., Lubowski, R., Godoy, F., Steininger, M., Yusuf, A., Austin, K., Hewson, J., Juhn, D., Farid, M. and Boltz, F. (2010). Open Source Impacts of REDD+ Incentives Spreadsheet – Indonesia (OSIRIS-Indonesia). v1.5.
- Cattaneo, A., Soares-Filho, B., Alencar, A., Merry, F., Nepstad, D., Busch, J., Moutinho, P., Stickler, C., Viana Hassa, L., Stella, O. and Lima, A. (2010). Brazilian Amazon Negotiation Toolbox for the Economics of REDD (BANTER v1.0).

Blog Posts and Op-Eds

Center for Global Development Blog:

- “Airlines and Forests: A Match Made at Cruising Altitude”
- “Affordable Climate Protection: Saving the Amazon Forest Cost Brazil Less Than Rio Olympics” August 2016
- “Uttar Pradesh Just Planted 49 Million Trees. Shouldn’t They Get More Than a Guinness Record?” July 2016
- “As ‘Clean Coal’ Falters, Remember Safe, Cheap, Carbon-Capture Already Exists” July 2016
- “Snakes or Ladders at the Carbon Fund?” June 2016
- “World Leaders Signed the Climate Agreement on Earth Day. How Will They Deliver?” April 2016
- “2015 Was a Turning Point Year for Climate Action” December 2015
- “The Paris Climate Agreement Feels Historic but Sustainable Development Goals Don’t. Why?” Dec. 2015
- “High Marks for the Paris Climate Agreement” December, 2015
- “Let Countries Trade Carbon” December, 2015
- “Postcards from the Paris Climate Summit” December 2015
- “At Paris Summit, Make Forests Part of the Climate Solution” November 2015
- “California Looks to the Forests: My Remarks to the California Air Resources Board” October 2015
- “Eight Reasons for California to Lead on Climate and Forests” October 2015
- “Seven Storylines in Last Week’s Climate Pledges” October 2015
- “Three Reasons the FAO’s New Forest Numbers Don’t Add Up” September 2015
- “The Last Guinea Worm: Carter, Kennedy, and a Victory for Person-to-Person Development” Sept. 2015
- “Tropical Forests Equal to the Size of India Will Be Lost by 2050, Unless We Act” August 2015
- “Climate Change and Development in Three Charts” August 2015
- “North Pole Overflight: Five Snapshots from a Vanishing World” August 2015
- “CGD’s Climate Work Wins Recognition” June 2015
- “Guess Who’s (Not) Coming to Dinner: Unrepresentative Statistics of White House State Dinners” June 2015
- “Pope Francis: Climate Change Hurts the Poor Most” June 2015
- “The G-7 Commits to Decarbonization” June 2015
- “Voluntary Climate Pledges Aren’t Effective, Efficient, or Equitable. Paris Can Succeed Anyway.” May 2015
- “Extending Indonesia’s Forest-Clearing Moratorium Helps the Climate. Expanding It Helps More.” May 2015
- “7 Hopeful Climate Stories from around the Globe” April 2015
- “SDG Goal Thirteen on Climate: A Pound of Cure, Sure, But Where’s the Ounce of Prevention?” April 2015
- “Disruptive Data Disputes Documentation of Declining Deforestation” March 2015
- “India’s Big Climate Move” March 2015
- “Is Indonesia’s Flagship Forest Policy Lowering Emissions by Enough to Meet Climate Targets?” Jan. 2015
- “12 Reasons for Climate Optimism This Holiday Season” December 2014
- “Unsung Climate Hero: Forest Monitoring Technology” December 2014
- “Tropical Forests Offer up to 24-30 Percent of Potential Climate Mitigation” November 2014
- “A Tale of Two Rainstorms: The Science of Tropical Forests” October 2014
- “Why Quantifying the Value of Tropical Forests Matters for Development” October 2014
- “Dream Come True: CGD Forest Work in the NYT” (with Frances Seymour) September 2014
- “Indigenous Peoples Prevent Deforestation. What About Other Local Communities?” August 2014
- “Ozymandias” May 2014
- “This Earth Day, Don’t Plant a Tree. (Save a Forest)” April 2014
- “Halting and Reversing Deforestation Critical to 2°C Climate Target” April 2014
- “How well are performance-based payments working? Lessons from Guyana” April 2014
- “Climate Change is Regressive.” April 2014
- “The Data Revolution Hits Forests.” February 2014
- “Carbon Fund pioneers multilateral payments for forest carbon in bottom-up climate world.” December 2013
- “Warsaw delights on tropical forests.” November 2013
- “Twelve takeaways from the IPCC report.” September 2013

ForestsClimateChange.org, Center for International Forestry Research (CIFOR):

- “Many good reasons for governments to pay for forest carbon.” February 2014

Institute for Advanced Development Studies (INESAD) Blog:

“Making people more prosperous with forests than without” September 2013

Conservation International Blog:

“Biodiversity payments can help communities fight climate change” November 2012

“Climate change increases costs of conserving biodiversity” April 2012

Opinion. *Jakarta Post*:

“Climate change, biodiversity and REDD+” (with C. Harvey, M. Farid) 11 November 2010

Copenhagen Insider Expert Blog, *National Journal*:

“Path on climate runs through forest—Guyana and Norway lead the way” December 2009

“Forests are a double-edged shield” December 2009

“High standards for REDD+” December 2009

Grants

“Unlocking Financial Support for REDD+” Norwegian Agency for International Development, \$2,900,000*, 2016

“Mexico deforestation vulnerability analysis and capacity building,” United States Agency for International Development, \$50,000, 2013*

“Aboveground Carbon Stock Mapping in Support of Low Emissions Development Strategies,” David and Lucile Packard Foundation, \$80,000, 2012**

“Review to support the post-Nagoya development of biodiversity safeguards and indicators for international forestry agreements,” U.K. Department for Environment, Food and Rural Affairs (DEFRA), \$15,000, 2011**

“Building vertically-integrated national to local REDD+ readiness in Peru, Ecuador, Indonesia and Madagascar,” Norwegian Agency for Development Cooperation, \$3,000,000, 2010**

“People need nature to thrive,” Norwegian Agency for Development Cooperation, \$440,000, 2009**

“Modelling the implications of different REDD reference level scenarios on carbon effectiveness and inter-country distribution,” David and Lucile Packard Foundation, \$15,000, 2009*

“Collaborative Modeling Initiative on the Economics of REDD,” Gordon and Betty Moore Foundation, \$80,000, 2008**

“Do surfers respond to water quality risk advisories?” Associated Students Shoreline Preservation Fund, University of California Santa Barbara, \$1,000, 2008*

“Rate of return on investment in yellow eyed penguin conservation,” East Asia and Pacific Summer Institute, National Science Foundation, \$8,500, 2007*

*Principal investigator **Co-principal investigator

Honors and Awards

Co-authored paper selected among “Highlights of 2015,” *Environmental Research Letters*, 2016
“Head in the Sky” award, Conservation International Chairman’s Council, 2010
Contestant, *Jeopardy!*, 2010
Expert, Copenhagen Insider Blog, *National Journal*, 2009
“Cool Scientist You Should Know,” Dive Into Your Imagination, 2008
“Most Interesting Paper Published in Biological Sciences,” Faculty of 1000 Biology, 2008
Distinction, Ph.D. Preliminary Exam in Microeconomics, 2004
NSF IGERT Economics and Environmental Science Traineeship, 2003
University of California, Santa Barbara Chancellor’s Fellowship, 2003
Marie S. Wilcox Scholarship for Outstanding Math Achievement, 2000
Phi Beta Kappa, 1999
Overseas Study, University of Wollongong, Wollongong, Australia, 1999

Academic Service

Editor: *Conservation Letters*

Guest editor: *Proceedings of the National Academy of Sciences*

Ad-hoc referee: *Biodiversity*; *Biodiversity and Conservation*; *Biological Conservation*; *Carbon Management*; *Climatic Change*; *Conservation Letters*; *Current Biology*; *Ecological Economics*; *Environment and Development Economics*; *Environmental Management*; *Environmental Research Letters*; *Environmental Science and Policy*; *Forests*; *Frontiers in Ecology and the Environment*; *Global Environmental Change*; *International Forestry Review*; *Journal of Environmental Economics and Management*; *Journal of Environmental Economics and Policy*; *Journal of Environmental Management*; *Land Economics*; *Mitigation and Adaptation of Strategies for Global Change*; *Nature Climate Change*; *Philosophical Transactions of the Royal Society B*; *PLoS ONE*; *Proceedings of the National Academy of Sciences*; *Resource and Energy Economics*; *Review of Environmental Economics and Policy*

Reviewer: Agricultural and Applied Economics Association Conference; Association of Environmental and Resource Economists Conference; Intergovernmental Panel on Climate Change Fifth Assessment Report

External dissertation committee member: R. Simorangkir, Georgia State University
M.B. Gurung, Lincoln University, Christchurch, New Zealand

International Experience

Work and travel:	Africa:	31 months in 18 countries
	Asia:	10 months in 15 countries
	Australia/Pacific:	9 months in 2 countries
	Europe:	8 months in 16 countries
	Latin America:	7 months in 15 countries
Languages:	English – native speaker, French – fluent, Spanish – conversational	
	Mooré (West Africa) – conversational, Indonesian – conversational	

Conference Presentations

2016
Okinawa Institute of Science and Technology, Okinawa, Japan

2015
Indonesia Pavilion Event, UNFCCC, Paris, France
European Union Pavilion Event, UNFCCC, Paris, France

Annual Conference on Land and Poverty, World Bank, Washington, DC
Resources for the Future, Annapolis, MD

2014

Center for Global Development Side Event, UNFCCC, Lima, Peru (x2)
World Resources Institute-Chatham House, Washington, DC
National Academy of Sciences, Washington, DC (moderator)
Center for Global Development, Washington, DC
National Conference and Global Forum on Science, Policy and the Environment, Washington, DC

2013

International Workshop on Evaluating Forest Conservation Initiatives, Barcelona, Spain
Intergovernmental Platform on Biodiversity and Ecosystem Services, Washington, DC
Center for Global Development, Washington, DC
International Congress for Conservation Biology, Baltimore, MD
World Resources Institute, Jakarta, Indonesia
Forest Carbon Partnership Facility, World Bank, Washington, DC
World Wildlife Fund, Washington, DC
International Society of Tropical Foresters, Yale University

2012

Government of Indonesia Pavilion Event, UNFCCC COP 18, Doha, Qatar
World Resources Institute Side Event, UNFCCC COP 18, Doha, Qatar
Yachats Institute, Yachats, OR
Conservation International REDD+ Workshop, Antananarivo, Madagascar (videoconference)
Association of Environmental and Resource Economists, Asheville, NC
International Workshop on Forestry and Green Economy, State Forestry Administration, Beijing, China
International Society of Tropical Foresters, North Carolina State University, Raleigh, NC
Seminar on REDD+ and Biodiversity, Conservation International Japan, Tokyo, Japan
International Technical Seminar on REDD+, University of Waseda, Tokyo, Japan (x2 incl. policy panel)

2011

Government of Indonesia Pavilion Event, UNFCCC COP 17, Durban, South Africa
Woods Hole Research Center Side Event, UNFCCC COP 17, Durban, South Africa
REDD+ Partnership, Durban, South Africa (moderator)
UNFCCC SBSTA Expert Workshop on Reference Levels, Bonn, Germany (session rapporteur)
Forest Carbon Partnership Facility, World Bank, Washington, DC (session moderator)
Forestry and Forest Products Research Institute, Tsukuba, Japan (poster)
Agricultural and Applied Economics Association, Pittsburgh, PA
Association of Environmental and Resource Economists, Seattle, WA
Carbon Offsets in Climate Policy, Cornell University, Ithaca, NY (x2 incl. policy panel)
Policy Mechanisms for Ecosystem Services Delivery, London School of Economics, London, UK (keynote)

2010

Resources for the Future/IETA Side Event, UNFCCC COP 16, Cancun, Mexico.
Biodiversity Economics for Conservation (BIOECON), Venice, Italy (x2 incl. plenary panel)
Wildlife Conservation Society Side Event, UNFCCC SBSTA 32, Bonn, Germany
World Agroforestry Centre (ICRAF) Conference on Reducing Emissions from All Land Use, Lima, Peru
International Society of Tropical Foresters, Yale University, New Haven, CT

2009

GEF Finance Learning Event, CIFOR Forest Day 3, UNFCCC COP 15, Copenhagen, Denmark
9th World Wilderness Congress (WILD9), Merida, Mexico (x2 incl. session chair)
UCS Side Event, UNFCCC AWG-LCA Intersessional, Barcelona, Spain
Conservation International Side Event, UNFCCC AWG-LCA Intersessional, Barcelona, Spain
11th Occasional Workshop on Environmental and Resource Economics, UCSB, Santa Barbara, CA
Biodiversity and Economics for Conservation (BIOECON), Venice, Italy (session chair)

Woods Hole Research Center Side Event, UNFCCC SBSTA 30, Bonn, Germany
International Association of Research Universities Scientific Conference on Climate Change, Copenhagen, Denmark

2008

Global Canopy Programme Side Event, UNFCCC COP 14, Poznan, Poland
Wentworth Group of Concerned Scientists Side Event, UNFCCC COP 14, Poznan, Poland
Forest Carbon Partnership Facility, World Bank, Washington, DC
Biodiversity and Economics for Conservation (BIOECON), Cambridge, UK
10th Occasional Workshop on Environmental and Resource Economics, UCSB, Santa Barbara, CA

2007

Biodiversity and Economics for Conservation (BIOECON), Cambridge, UK

2006

Integrative Graduate Education and Research Traineeship Program (IGERT), NSF, Arlington, VA (poster).

Invited Lectures

2016

Young Professionals in Foreign Policy, Washington, DC
Center for Effective Global Action, University of California, Berkeley, CA
UBS, Zurich, Switzerland (webinar)
Masters of Development Program, University of California, Berkeley, CA
Carnegie Institution for Science, Palo Alto, CA
Earth Innovation Institute, San Francisco, CA

2015

Pacific Council on International Policy, Los Angeles, CA (teleconference)
Center for American Progress, Jakarta, Indonesia
Young Professionals in Foreign Policy, Washington, DC

2014

Johns Hopkins School of Advanced International Studies
World Wildlife Fund, Washington, DC (webinar)
World Wildlife Fund, Washington, DC (webinar)

2013

Johns Hopkins School of Advanced International Studies (SAIS), Washington, DC
Monterey Institute of International Studies, Monterey, CA (videoconference)
San Martin Province REDD+ Roundtable, Moyobamba, Peru
Ministry of Environment (MINAM), Lima, Peru
Center for Global Development, Washington, DC
Conservation International, Arlington, VA
McGill University, Montreal, Canada
Development Research Group, World Bank, Washington, DC
National Zoo, Washington, DC

2012

Ministry of Environment, Bogota, Colombia
Duke University, Durham, NC
Stockholm Environment Institute, Seattle, WA (videoconference)
University of Virginia, Charlottesville, VA (x2)
Woods Hole Research Center, Falmouth, MA
EcoAgriculture Partners, Food and Agriculture Organization (FAO), Washington, DC
Joint Research Seminar on Environment and Energy, World Bank-IMF, Washington, DC

2011

American University, Washington, DC
Conservation Strategy Fund (CSF), Stanford University, Palo Alto, CA (x2)
Rensselaer Polytechnic Institute (RPI), Troy, NY
Princeton University, Princeton, NJ
Ministry of Physical Planning, Land and Forest Management, Paramaribo, Suriname (x2)
Inter-American Development Bank (IADB), Washington, DC
International Climate and Forest Initiative (ICFI), Ministry of the Environment, Oslo, Norway
Federal Ministry for Economic Cooperation and Development (BMZ), Bonn, Germany
CI-Bolivia/London School of Economics REDD Game Planning Workshop, La Paz, Bolivia
San Martin Province REDD+ Roundtable, Moyobamba, Peru (x2)
Inter-American Development Bank (IADB), Washington, DC
Purdue University, West Lafayette, IN
United States Agency for International Development (USAID), Washington, DC
Resources for the Future (RFF), Washington, DC
Conservation International, Arasha, Ecuador (x2)

2010

Forest Carbon Partnership Facility, World Bank, Washington, DC
Cornell University, Ithaca, NY
National Council on Climate Change (DNPI), Jakarta, Indonesia
Ministry of Finance, Jakarta, Indonesia
Ministry of Forestry, Jakarta, Indonesia
Indonesia Policy and Modeling Forum on REDD+, Jakarta, Indonesia
Ecosystem Services Training Day, Venice, Italy
Conservation Strategy Fund (CSF), Stanford University, Palo Alto, CA (x2)
Monterey Institute of International Studies (MIIS), Monterey, CA
California Air Resources Board (CARB), Sacramento, CA (web conference)
Montpellier SupAgro, Montpellier, France
Basque Centre for Climate Change (BC3), Bilbao, Spain
Ministry of Environment (MINAM), Lima, Peru
National Park Service (SERNANP), Lima, Peru
San Martin Province REDD+ Roundtable, Tarapoto, Peru
School of Forest Resources and Conservation (SFRC), University of Florida, Gainesville, FL (x2)
National Council on Climate Change (DNPI), Jakarta, Indonesia
OSIRIS-Indonesia Core Modeling Retreat, Jakarta, Indonesia
OSIRIS-Indonesia Policy Advisory Meeting, Bogor, Indonesia
University of California, Davis, Davis, CA (videoconference)

2009

OSIRIS training workshop, Jakarta, Indonesia (x3)
Conservation Strategy Fund (CSF), Stanford University, Palo Alto, CA (x3)
Electric Power Research Institute (EPRI), Washington, DC
World Bank Forest Carbon Partnership Facility (FCPF), Washington, DC
Danish Ministry of Climate and Energy, Copenhagen, Denmark
Helmholtz-Zentrum für Umweltforschung (UFZ), Leipzig, Germany

2008

Conservation International, Antananarivo, Madagascar
Santa Barbara Surfrider Foundation, Santa Barbara, CA
Isla Vista Surfrider Foundation, Isla Vista, CA
National Center for Environmental Economics (NCEE), Environmental Protection Agency, Washington, DC