

# Christoph Nolte

Boston University  
685 Commonwealth Avenue, RM 445, Boston, MA 02215

+1 (734) 747-0305  
chrnolte@bu.edu

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## EDUCATION

- 2014 PhD Natural Resources & Environment, University of Michigan
- 2008 International MSc of Rural Development, Humboldt University Berlin (Germany), Chinese Academy of Social Sciences (China), Agrocampus Rennes (France), Universidad de Córdoba (Spain)
- 2005 BSc Environmental & Resource Management, Brandenburg University of Technology

## ACADEMIC EMPLOYMENT

- Since 2016 Assistant Professor, Boston University, Department of Earth & Environment
- 2015 – 2016 Postdoctoral Scholar, Stanford University, School of Earth Sciences
- 2010 – 2014 Research Assistant, University of Michigan, School of Natural Resources and Environment
- 2008 – 2010 Lecturer & Research Assistant, University of Greifswald, Department for Landscape Economics & Department for Sustainability Science

## PUBLICATIONS

### Journal Articles

- 2017 **Nolte C**, Gobbi B, le Polain de Waroux Y, Piquer-Rodríguez M, Butsic V, Lambin E. Decentralized land use zoning reduces large-scale deforestation in a major agricultural frontier. *Ecological Economics* 136: 30-40
- Nolte C**, le Polain de Waroux Y, Munger J, Reis T, Lambin E. Conditions influencing the adoption of effective anti-deforestation policies in South America's commodity frontiers. *Global Environmental Change* 43: 1-14
- le Polain de Waroux Y, Garrett R, Graesser J, **Nolte C**, White C, Lambin E (2017) The restructuring of South American soy and beef production and trade under changing environmental regulations. *World Development*, in press
- 2016 **Nolte C**. Identifying Challenges to Enforcement in Protected Areas: Empirical Insights from 15 Colombian Parks. *Oryx* 59(02): 317-322

- Brandt J, **Nolte C**, Agrawal A. Deforestation and timber production in Congo after the implementation of sustainable forest management policy. *Land Use Policy* 52: 15-22
- 2015 Ferraro P, Hanauer M, Miteva D, Nelson J, Pattanayak S, **Nolte C**, Sims K. Estimating the impacts of conservation on ecosystem services and poverty by integrating modeling and evaluation. *Proc. Natl. Acad. Sci. U.S.A.* 112 (24): 7420-7425
- Coad L, Leverington F, Knights K, Geldmann J, Eassom A, Kapos V, Zamora C, Cuadros I, **Nolte C**, Burgess N, Hockings M. Measuring impact of protected area management interventions: current and future use of the global database of protected area management effectiveness. *Phil. Trans. R. Soc. B* 370: 20140281
- 2014 Brandt J, **Nolte C**, Steinberg S. Foreign capital, forest change and regulatory compliance in Congo Basin forests. *Environ. Res. Lett.* 9(4): 044007
- 2013 **Nolte C**, Agrawal A, Silvius K, Soares-Filho B. Governance regime and location influence avoided deforestation success of protected areas in the Brazilian Amazon. *Proc. Nat. Acad. Sci. U.S.A.* 110(13): 4956-4961
- Nolte C**, Agrawal A, Barreto P. Setting priorities to avoid deforestation in Amazon protected areas: Are we choosing the right indicators? *Environ. Res. Lett.* 8(1): 015049
- Nolte C**, Agrawal A. Linking management effectiveness indicators to observed effects of protected areas on fire occurrence in the Amazon Rainforest. *Conserv. Biol.* 27(1): 155-165
- Coad L, Leverington F, Burgess N, Cuadros I, Geldmann J, Marthews T, Mee J, **Nolte C**, Stoll-Kleemann S, Vansteelant, N, Zamora C, Zimsky, M, Hockings M. Progress towards the CBD protected area management effectiveness targets. *Parks* 19: 13-24
- 2012 Stoll-Kleemann S, Kettner A, Leverington F, **Nolte C**, Nielsen G, Bomhard B, Stolton S, Marr M, Hockings M. Erfassung der Managementeffektivität in Europas Schutzgebieten [Assessing the management effectiveness of Europe's protected areas]. *Landschaft und Naturschutz* 44(2): 034-044
- 2009 Stoll-Kleemann S, Schliep R, **Nolte C**. The Global Research Centre for Biosphere Reserve Advancement. A New Emphasis on Social Dynamics and Exchange in UNESCO's World Network. *GAIA* 18(3): 270-272

### **In Review**

**Nolte C**. Buying forests for conservation: contours of a global trend. *Current Opinion in Environmental Sustainability*, submitted to editors of special issue upon invitation

Lambin E et al (16 authors) The road to zero deforestation supply chains. *Nature Climate Change*, revise & resubmit.

Robinson B et al (17 authors) Incorporating land tenure security into conservation. *World Development*, revise & resubmit

### **Reports, Theses, Working Papers**

- 2010 Leverington F, Costa KL, Courrau J, Pavese H, **Nolte C**, Marr M, Coad L, Burgess N, Bomhard B, Hockings M. Management effectiveness evaluation in protected areas – a global study. 2nd edition. IUCN: Gland, Switzerland
- Nolte C**, Leverington F, Kettner A, Marr M, Nielsen G, Bomhard B, Stolton S, Stoll-Kleemann S, Hockings M. Protected Area Management Effectiveness Assessments in Europe: A review of data, methods and results. BfN Skripten Series 271a. BfN: Bonn
- 2008 **Nolte C**. Property rights and payments for watershed services from forests in China: A case study of Beijing's Forest Eco-Compensation. MSc. Thesis
- 2006 **Nolte C**. The Biosphere Tour: Observations and Recommendations. Report to the UNESCO-MAB Secretariat, UNESCO field offices and biosphere reserves.
- 2005 **Nolte C**. Awareness of the "Man and the Biosphere" program and its impact on visitors' attitudes towards tourism services in Dana BR, Jordan. BSc. Thesis

### **GRANTS AND FELLOWSHIPS**

- 2017 *Spatially optimizing investments in biodiversity conservation across decision hierarchies*. National Institute for Mathematical-Biological Synthesis Working Group (Co-PI with Paul Armsworth and Kaitlin Kroetz)
- 2014 UK Department for International Development (PI Arun Agrawal) - **\$3,100,000** (authored successful core concept, not involved in research)
- 2013 **National Science Foundation**, Doctoral Dissertation Improvement Grant - \$12,915
- 2012 Rights and Resources Initiative (PI Arun Agrawal, 33% effort) – **\$130,000**  
University of Michigan, Graham Doctoral Sustainability Fellowship – \$50,000  
University of Michigan, Rackham International Student Fellowship – \$10,000
- 2011 Gordon and Betty Moore Foundation (PI Arun Agrawal, 50% effort) – **\$399,000**  
University of Michigan, Rackham Summer Research Grant  
University of Michigan, International Institute Individual Fellowship (summer)  
University of Michigan, Rackham Graduate Student Research Grant (summer)
- 2010 University of Michigan, School of Natural Resources & Environment, PhD Fellowship
- 2008 German Academic Exchange Service (DAAD), Field Research Fellowship
- 2007 European Union, Erasmus Mundus Action 3 Fellowship, Thesis Research

- 2005 Beijing Institute of Technology, Semester Abroad Scholarship  
2004 German Academic Exchange Service, Semester Abroad Scholarship

## TEACHING

- 2016 Land Change Science (graduate, with statistics tutorial), Stanford University  
2015 Land Change Science (graduate), *ibid.*  
2010 Economics of Biodiversity Conservation (graduate), University of Greifswald  
Environmental Economics (undergraduate), *ibid.*  
Introduction to Economics (undergraduate), *ibid.*  
2009 Protected Area Management (guest lectures), *ibid.*

## INVITED PRESENTATIONS

- 2017 “Protecting more - but where? Spatial drivers of private land protection in the conterminous U.S.” Harvard Forest Seminar, Harvard University  
“Conserving private properties: expensive niche or the future of land protection?”  
Governing Sustainability Seminar, School of Nat. Res. & Env., University of Michigan  
2016 “Quantifying conservation influence: the allocation and impact of land conservation in South America and the U.S.” (talk series)  
Environmental Studies Colloquium, University of Colorado - Boulder  
Institute on the Environment, University of Minnesota  
Department of Forest & Wildlife Ecology, University of Wisconsin - Madison  
Nat. Resources & Environmental Sciences Seminar, University of Illinois - Urbana  
“Tracing causal impacts in international forest conservation”  
Oregon State University, Corvallis, Oregon (job talk)  
Michigan State University, East Lansing, Michigan (job talk)  
Boston University, Boston, Massachusetts (job talk)  
“Causal linkages between protected area support and impact” Conservation Strategy Fund, Washington, DC (webinar)  
2015 “Linkages between biodiversity finance and impact: The case of protected area support in the Andes-Amazon region” German Development Institute, Bonn, Germany  
2013 “Explaining the impacts of protected area management in the Andes-Amazon Region”,  
Environmental Research Center (UFZ), Leipzig, Germany

- 2012 “Explaining the impacts of protected area management in the Andes-Amazon Region”, German Federal Ministry for Development & Economic Cooperation, Berlin, Germany
- 2009 “Protected Area Management Effectiveness Evaluation: Rationale, Approaches and Application in Europe”. CBD Workshop on PoWPA Implementation in CEE Countries, International Academy of Nature Conservation, Vilm, Germany
- “Chinese Forest Policy in the 21<sup>st</sup> Century”, Lecture Series: Challenges of Sustainable Resource Use in Asian Economies, Humboldt University Berlin, Germany

## CONFERENCE ACTIVITY

### Presentations

- 2017 “Conserving more - but where? Explaining spatial drivers of land acquisitions for conservation in the U.S., Chile, and Colombia” **Association of American Geographers (AAG) Annual Meeting**, Boston, MA
- 2016 “Disentangling the Impacts of Argentina’s Forest Law in the Chaco: Matching and its Limitations” **AAG Annual Meeting**, San Francisco, CA
- “Adoption of effective forest conservation instruments in soy-and-cattle frontiers”  
Workshop: Improving conservation outcomes from supply-chain interventions. Gordon & Betty Moore Foundation, Palo Alto, CA
- 2013 “Ecological and Social Impacts of Protected Areas in the Andes-Amazon Region” **International Congress for Conservation Biology**, Baltimore, MD
- “Ecological and Social Impacts of Protected Areas in the Andes-Amazon Region”  
**AAG Annual Meeting**, Los Angeles, CA
- 2012 “Impacts of protected areas on deforestation: The relative importance of location, governance and management”. **IUCN World Conservation Congress**, Jeju, S. Korea
- “Management effectiveness and impact of Amazon protected areas”.  
Workshop: Governance and Conservation: Towards More Robust Indicators, Gordon and Betty Moore Foundation, Palo Alto, CA
- “Management effectiveness of protected areas: Are we choosing the right measures?”  
**Student Conference on Conservation Science**, University of Cambridge, UK
- 2011 “Management effectiveness of protected areas: Are we choosing the right measures?”  
Conference: Forest Biodiversity in a Changing Climate, University of Freiburg, Germany

- 2010 “Evaluating the Management Effectiveness of European Protected Areas”.  
Workshop: Instruments for Social Monitoring in German Biosphere Reserves,  
University of Greifswald, Germany
- 2007 “The Biosphere Tour: Implementation of the UNESCO-MAB Programme in Europe,  
Middle East and Asia”. EuroMAB Conference: Bridging Science and Society, Antalya,  
Turkey

### **Panels / Workshops Organized**

- 2011 (Co-Lead) Capstone Conference of Annual Institute on Joint Outcomes Related to  
Sustainability, University of Michigan, MI  
  
(Co-Lead) Workshop “Governance and Conservation: Towards More Robust  
Indicators”, Gordon and Betty Moore Foundation, Palo Alto, CA
- 2009 (Co-Lead) Workshop “Management Effectiveness of Europe's Protected Areas and the  
Convention on Biological Diversity”, International Academy of Nature Conservation,  
Vilm, Germany  
  
(Lead) Panel “Evaluation of Management Effectiveness: Future Proofing”, EUROPARC  
Federation Conference, Strömstad, Sweden

### **FIELD RESEARCH**

- 2016 Colombia: field research on protected area expansion (6 weeks)
- 2015 Argentina, Bolivia, Paraguay: field research on forest regulations, enforcement,  
and commodity supply chains (5 weeks)
- 2013 – 2014 Colombia: field research on enforcement in 15 national parks (3 months)
- 2011 Ecuador, Peru, Bolivia, Brazil: pilot research for PhD dissertation (3 months)
- 2009 Coordinator of Europe-wide study on protected area evaluations (46 countries)
- 2008 China: field research on conservation payments (M.Sc. thesis, 4 months)
- 2005 – 2006 Europe, Middle East, Asia: field research on effects of UNESCO's “Man and  
Biosphere” program (16 countries, 11 months, 18 reserves)
- 2004 Jordan: field research on nature visitor expectations (B.Sc. thesis, 5 months)

## **SERVICE**

- Reviewer for Philosophical Transactions of the Royal Society B, Environmental & Resource Economics, Conservation Biology, Conservation Letters, Environmental Research Letters, Land Use Policy
- 2017 Scientific Committee of International Congress of Conservation Biology, Cartagena, Colombia
- 2012-2013 Research Committee, School of Natural Resources and Environment, U of M

## **LANGUAGES**

- German: native
- English: fluent
- Spanish: fluent
- French: fluent
- Portuguese: working knowledge
- Chinese: working knowledge, ~1500 characters
- Arabic: basic knowledge