

Daniela A. Miteva

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EDUCATION

Duke University, Durham, NC

Ph.D. in Environment

2008- 2013

Areas of expertise: Environmental and Resource Economics, Development Economics

Primary advisors: Dr. Subhrendu Pattanayak and Dr. Randall Kramer

Committee members: Dr. Martin Smith, Dr. Jeffrey Vincent, Dr. Dean Urban

Certificate in College Teaching

2013

Bryn Mawr College, Bryn Mawr, PA

B.A. in Economics & Biology (Magna cum Laude)

2003-2007

Honors in Biology

DISSERTATION

“Three Essays on Protecting Biodiversity in Developing Countries”

PEER REVIEWED PUBLICATIONS & WORKING PAPERS

Miteva, D.A., Pattanayak, S.K., Ferraro, P.J., 2012. Evaluation of biodiversity policy instruments: What works and what doesn't? *Oxford Review of Economic Policy* 28, 69–92.

Ferraro, P.J., Hanauer, M.M., **Miteva, D.A.**, Canavire-Bacarreza, G., Pattanayak, S.K., Sims, K.R.E., 2013. More strictly protected areas are not necessarily more protective: Evidence from Bolivia, Costa Rica, Indonesia and Thailand. *Environmental Research letters*.

Ferraro, P. J., Hanauer, M. M, **Miteva, D.A.**, Nelson, J., Pattanayak, S. K., Nolte, C., Sims, K. R.E., 2014. Estimating the impacts of conservation on ecosystem services by integrating ecosystem service modeling and impact evaluation. *Revise & Resubmit-PNAS*

Miteva, D.A., Murray, B.C., Pattanayak, S.K., 2014. Assessing the performance of protected areas in preserving mangroves in Indonesia. *Revise & Resubmit-Ecological Economics*

Miteva, D.A., Rudolph, J., Brown, Z., Okello-Onen, J., Ocan, D., Oryema, C., Kramer, R.A., 2014. Patterns of change in post-conflict forests: Evidence from northern Uganda. *Revise & Resubmit-Conservation Biology*

Miteva, D.A., Loucks, C., Pattanayak, S.K., 2014. Evaluating the impacts of FSC certification in Indonesia. *In Review-PLOS One*

Miteva, D.A., Kramer, R.A., Brown, Z.S., Smith, M.D., 2014. Spatial patterns of market participation regimes determined by location: An application of fuelwood collection in northern Uganda. *In prep.*

Sills, E., Jagger, P., Lawlor, K., **Miteva, D.A.**, Pattanayak, S.K., Sunderlin, W., 2014. Building the evidence base for reducing emissions from deforestation and forest degradation: Evaluating the livelihood impacts of forest conservation interventions. *Working paper*

Kennedy, C.M.* , **Miteva, D.A.***, Baumgarten, L., Hawthorne, P.L., Sochi, K., Oakleaf, J.R., Uhlhorn, E., Kiesecker, J., 2014. Bigger is better: Benefits to business and nature from landscape-level mitigation. *Working paper*; * indicates co-lead authors

Kennedy, C.M.* , Hawthorne, P.L.* , **Miteva, D.A.**, Baumgarten, L., Sochi, K., Matsumoto, M., Evans, J., Polasky, S., Hamel, P., Monteiro Viera, E., Develey, P. F., Sekerciouglu, C.H., Davidson, A.D., Uhlhorn, E., Kiesecker, J., 2014. Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. *Working paper*; * indicates co-lead authors

Miteva, D.A., Pattanayak, S.K., 2013. Is decentralization bad for conservation? Evidence from Indonesia. *Working paper*

Miteva, D.A., Pattanayak, S.K., Murray, B.C., 2013. What is good for the forest is good for the people? Evaluating the impacts of protected areas on ecosystem services and poverty in Indonesia. *Working paper*

Miteva, D.A., Kramer, R.A., Brown, Z.S., 2013. The land titling process, institutional deficiencies and microeconomic development prospects in post-conflict societies: Preliminary evidence from post-conflict northern Uganda. *Working paper*

NON-PEER REVIEWED PUBLICATIONS

“Do biodiversity policies work? The case for Conservation Evaluation 2.0” with Subhrendu Pattanayak and Paul Ferraro, Ch. 12 in *“Nature in the Balance: The Economics of Biodiversity”*, (Eds) Dieter Helm & Cameron Hepburn, 2014

"Ecosystem services and human well-being: A Case Study in Jambi Province, Sumatra, Indonesia" with Seth Binder, Amy Rosenthal, Subhrendu Pattanayak, Justin Johnson, Rebecca Traldi, Michael Anderson, Derric Pennington, Nirmal Bhagabati, 2013 Available at: http://www.naturalcapitalproject.org/pubs/Jambi_CS_poverty_ES.pdf

WORK IN PROGRESS

Miteva, D.A., Kennedy, C.M., Polasky, S., Hawthorne, P. L., Baumgarten, L., Griffin R., Oakleaf, J. R., Sochi K., 2014. Reconciling agricultural profits and ecosystem service provisioning: Voluntary policy design to incentivize optimal landscapes.

Miteva, D.A., Kramer, R.A., Brown, Z.S., Smith, M.D., 2014. Making ends meet: A spatio-dynamic model of household fuelwood extraction in northern Uganda.

PAPER AND POSTER PRESENTATIONS

"Evaluating the impacts of FSC certification in Indonesia" with Colby Loucks and Dr. Subhrendu Pattanayak

- World Congress of Environmental and Resource Economists (July 2014), Istanbul, Turkey (Presenter)

"Do conservation PAs provide ecosystem services in Indonesia?" with Dr. Subhrendu Pattanayak & Dr. Brian Murray

- "Evaluating Forest Conservation Initiatives: New Tools and Policy Needs" International Workshop (2013), Barcelona, Spain (Presenter)

"Is decentralization bad for conservation?" with Dr. Subhrendu Pattanayak; Center for Environmental and Resource Policy CAMP Resources XIX Workshop (2012), Wilmington, NC (Presenter)

- European Association of Environmental and Resource Economists annual meeting (2013), Toulouse, France
- International Congress for Conservation Biology meeting (2013), Baltimore, MD
- Center for Environmental and Resource Policy CAMP Resources XIX Workshop (2012), Wilmington, NC

"A spatial model of household fuelwood extraction in northern Uganda" with Dr. Randall Kramer, Dr. Zachary Brown & Dr. Martin Smith

- European Association of Environmental and Resource Economists annual meeting (2013), Toulouse, France
- Agricultural & Applied Economics Association annual meeting (2013), Washington, DC (Presenter)

"Evaluating the impact of protected areas on ecosystem services in Indonesia: In search of spatial complementarities" with Dr. Subhrendu Pattanayak and Dr. Brian Murray, Duke University (Presenter)

- Allied Social Science Association annual meeting (2013), San Diego, CA
- Association of Environmental and Resource Economists annual meeting (2012), Asheville, NC.
- European Association of Environmental and Resource Economists annual meeting (2012), Prague, Czech Republic.
- SCB North America Congress for Conservation Biology (2012), Oakland, CA.
- Center for Environmental and Resource Policy CAMP Resources Workshop (2011), Wilmington, NC.
- Heartland Environmental and Resource Economics Workshop (2011), Urbana-Champaign, IL.
- International Population, Health, and Development Seminar (2011), Duke University, NC.

"Making ends meet: Modeling biodiversity changes in northern Uganda"; Center for Environmental and Resource Policy CAMP Resources Workshop (2010), Wilmington, NC. (Presenter)

“Predicting pollen transfer in a restored eastern US prairie community using a plant-pollinator interaction web” with Dr. Karen Goodell (Ohio State University) and Dr. Neal Williams (Bryn Mawr College); ESA Meeting (2007).

“Comparison of visitation patterns and pollen deposition in a “pollination” network” with Dr. Neal Williams, Bryn Mawr College; Mid-Atlantic ESA Meeting (2007). (Poster presentation)

“Comparison of the pollination efficiency of honey bees and bumble bees on organic and conventional farms” with Rosemary Malfi and Dr. Neal Williams, Bryn Mawr College; Haverford College Student Research Symposium (2005). (Poster presentation)

RESEARCH EXPERIENCE

Postdoctoral Researcher. Supervisors: Christina Kennedy & Steve Polasky, The Nature Conservancy, Minneapolis, MN (June 2013-June 2015)

- Spatial models of sugarcane placement and Forest Code compliance in Brazil
- Ecosystem service valuation
- Policy design for ecosystem services provision

Research Assistant. Supervisors: Dr. Brian Murray and Dr. Subhrendu Pattanayak, Duke University, Durham, NC (Summer 2012)

- Impact evaluation of protected areas on poverty and ecosystem services (matching methods, non- and semi-parametric regression analysis)
- Spatial models of protected area effectiveness
- Household survey data processing

Research Assistant. Supervisor: Dr. Subhrendu Pattanayak, Duke University, Durham, NC (Fall 2011)

- Impact evaluation of protected areas on ecosystem structure and services in Indonesia (propensity score matching and related techniques)

Research Assistant. Supervisors: Dr. Brian Murray and Dr. Subhrendu Pattanayak, Duke University, Durham, NC (Summer 2011)

- Impact evaluation of protected areas on mangrove conservation (propensity score matching, partial linear models)

Research Assistant. Supervisor: Dr. Randall Kramer, Duke University, Durham, NC (Summer 2010)

- Econometric analysis of the link between land tenure and land investment in northern Uganda (instrumental variable techniques, survey data analysis techniques)

Research Assistant. Supervisor: Dr. Randall Kramer, Duke University, Durham, NC (Summer 2009)

- Literature reviews on the coupled human-natural systems in the context of landscape change models
- Helped conduct two focus groups on biodiversity and subsistence in Gulu District, northern Uganda
- Conducted interviews on landuse policy changes and threats to biodiversity with faculty at Makerere University and researchers at the Wildlife Conservation Society in Kampala, Uganda

Research Assistant. Supervisor: Dr. Neal Williams, Bryn Mawr College, Bryn Mawr, PA (Summer 2008)

- Data collection and analysis on the efficiency of *Apis mellifera* and *Bombus impatiens* as pollinators of watermelon on organic and conventional farms in Pennsylvania and New Jersey. The goal of the research project is to test whether the quality of the ecosystem service the two bee species provided is correlated with the diversity of pollinators at the site.

Research Technician. Supervisor: W. Bridgeland, PhD candidate, N. Arizona University, Flagstaff, AZ (Summer 2007)

- Performed visual surveys on the diversity and abundance of arthropods on cottonwood trees in restored areas in the Ogden area, UT. The goal of the project was to estimate the impact of bird exclusion on the arthropod communities of cottonwood trees.

Summer Fellow. Supervisor: Dr. Neal Williams, Bryn Mawr College, Bryn Mawr, PA (Summer 2006)

- Field and geospatial data collection and analysis on the effects of landscape fragmentation on the abundance and richness of native bee species in abandoned agricultural fields in New Jersey.

Research Assistant. Supervisor: Dr. Neal Williams. Bryn Mawr College, Bryn Mawr, PA (Spring 2006)

- Geospatial analysis and data collection on the abundance of native pollinators and the seed set of native spring plants in fragmented landscapes.

Summer Fellow. Supervisor: Dr. Neal Williams, Bryn Mawr College, Bryn Mawr, PA (Summer 2005)

- Data collection and analysis of the efficiency of native and honey bees for two crops on organic and conventional farms in Pennsylvania and New Jersey. The goal of the project was to test whether natural habitat contributes to increased yield of watermelon and whether honey bees can be successfully replaced by wild bees on conventional and organic farms.

RESEARCH FUNDING

“**Making Ends Meet: Exploring Ways to Conserve Biodiversity in Rural Uganda**”, Duke University SIDG/Lazar Foundation, 06/2009-07/2009 (\$2,000)

AWARDS

European Environmental Agency travel grant (Summer 2012, Summer 2013)

Nicholas School Conference travel award (Fall 2012, Summer 2012)

Duke University Graduate School conference travel fellowship (Fall 2012, Summer 2012)

HEARTLAND Workshop travel grant (Fall 2011)

E3 Network Workshop travel grant (Winter 2009)

National Institute for Technology and Liberal Education Robert R. Churchill Memorial Prize for Student Scholarship in GIS (Summer 2007)-awarded to one student from one of the 80 participating colleges

Bryn Mawr College Jean Quistgaard Prize for Excellence in Economics (Spring 2007)-awarded annually to one senior for excellence in Economics

Bryn Mawr College Elizabeth S. Shippen Scholarship in Science (Spring 2006)-awarded annually to one junior for excellence in the study of natural sciences

Bryn Mawr College Mildred Bach Scholarship (Fall 2003-Spring 2007)-full scholarship awarded on the basis of scholastic achievement and financial need upon admission

PROFESSIONAL ASSOCIATIONS

Association of Environmental and Resource Economists
European Association of Environmental and Resource Economists
Agricultural & Applied Economics Association
Society for Conservation Biology

SERVICE

Referee: Journal of Environmental Economics and Management; Conservation Letters; Agroforestry Systems; International Journal of Biodiversity Science, Ecosystem Services and Management; Journal of Environment and Development, Environmental and Resource Economics, Diversity, Environmental & Development Economics, Journal of Environmental Planning & Management, PLoS One

Advisory Board, Bauersachs Foundation, Plovdiv, Bulgaria (2013-2014)

Volunteer, Green Balkans Federation of Conservation NGOs, Plovdiv, Bulgaria (July 2001-2011)
Volunteer, Bryn Mawr College Greens Club, Bryn Mawr, PA (Fall 2003-Fall 2006)

TEACHING EXPERIENCE

Teaching assistant:

Environmental and Resource Economics. Fall 2008, 2012; Spring 2011
Global Environmental Health. Fall 2009 and Fall 2010.
Social Science Survey Methods. Spring 2010.
Electric Power Markets. Spring 2012
Energy Modeling. Spring 2009.
Principles of Economics. Spring 2006

LANGUAGES

English, Bulgarian, German (proficient), Russian (proficient)

SOFTWARE

Stata 13, R 3.0.2, ESRI ArcGIS 10.1

REFERENCES

Dr. Subhrendu Pattanayak, Professor of Public Policy, Environment, Economics and Global Health, Duke University
Office Phone: (919) 613-9306
Email: subhrendu.pattanayak@duke.edu

Dr. Randall Kramer, Professor of Resource and Environmental Economics & Deputy Director, Duke Global Health Institute, Duke University
Office Phone: (919) 613-8072
Email: kramer@duke.edu

Dr. Martin Smith, Professor of Environmental Economics, Duke University
Office Phone: (919) 613-8028
Email: martin.smith@duke.edu

Dr. Christina Kennedy, Senior Scientist, Development by Design Division, The Nature Conservancy
Office Phone: (970) 484-9598
Email: ckennedy@tnc.org

Dr. Steve Polasky, Fesler-Lampert Professor of Ecological/Environmental Economics & University of Minnesota Regent's Professor, University of Minnesota
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