

University of Maryland
College Park, MD20742

Smithsonian Institution
NZIP, Species Conservation Center
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Thomas Mueller

EDUCATION

Graduate student (PhD candidate), Behavior, Ecology, Evolution and Systematics Program, University of Maryland 2003 - present

- *Research focus:* Theoretical and Spatial Ecology; primary advisor: Bill Fagan
- *Comprehensive Exam:* November 2005
- *Thesis topic:* Resource Predictability and Movement Strategies in Ungulates: Does Temporal Uncertainty Lead to Nomadism in Mongolian Gazelles?
- *Completed Coursework:* Concepts in Evolution, Behavioral Ecology, Theoretical Ecology, Biometrics 1 & 2, Computer Science 1 & 2, Quantitative Spatial Analysis, Computational Statistics

Diplom, Biology, Philipps-University Marburg, Germany 2001

- *Thesis:* Habitat Requirements and Nest Site Selection of the Common Raven (*Corvus corax*) in Białowieża Forest, Poland

RESEARCH ACTIVITIES

Smithsonian Institution, Conservation and Research Center 2002 - present

- Studied spatiotemporal resource dynamics in grasslands using NDVI imagery
- Analyzed forest cover change in Myanmar using multi-temporal Landsat imagery and performed several field trips to survey elephant populations in Myanmar

Department of Ecological Modeling, UFZ, Leipzig Spring 2006 & 2007

- Guest student in individual-based modeling

Oceanites Jan-Feb. 2007

- Surveyed Penguin colonies across the Antarctic Peninsula

Pacific Institute for the Mathematical Sciences Oct. 2006

- Invited participant at graduate short course for modeling uncertainty in ecology

Everglades National Park, Aquatic Ecology Group Spring 1999

- Studied crayfish dispersal in relation to hydrological patterns

Polish Academy of Science, Mammal Research Institute Spring 1997, 1998

- Radio- and snow-tracked wolves

TEACHING

Conservation GIS training at the Smithsonian National Zoological Park and in China 2002 – present

Teaching assistant, University of Maryland 2003 & 2006

- BIOL708T "Advanced Topics in Biology: Theoretical Ecology"
- BSCI106 "Principles of Biology 2"

PUBLICATIONS

- Mueller T.**, K. Olson, T.K. Fuller , G.B. Schaller, M.G. Murray, and P. Leimgruber. 2007. Predicting dynamic habitats for Mongolian gazelle using Modis-NDVI satellite data. *Journal of Applied Ecology*, doi: 10.1111/j.1365-2664.2007.01371.x
- Strand H., P. Leimgruber, and **T. Mueller** 2007. Chapter 5. Trends in Selected Biomes, Habitats, and Ecosystems: Dry and Sub-humid Lands. pp. 67-86 in: Strand H, R. Höft , J. Strittholt, N. Horning, L. Miles, and E. Fosnight (eds) in: *Sourcebook on Remote Sensing and Biodiversity Indicators*. Secretariat of the Convention on Biological Diversity, Montreal.
- Leimgruber P., D. S. Kelly, M. K. Steininger, J. Brunner, **T. Mueller**, and M. A. Songer 2006. Forest cover change patterns in Myanmar (Burma) 1990-2000. *Environmental Conservation* 32:356-364.
- Roesner S., N. Selva, **T. Mueller**, E. Pugacewicz, and F. Laudet. 2005. Raven *Corvus corax* ecology in a primeval temperate forest. in: Jerzak, L.; Kavanagh, B.P. & P. Tryjanowski (eds): *Ptaki krukowate Polski [Corvids of Poland]*. - Bogucki Wyd. Nauk., Poznań.
- Roesner S. and **T. Mueller**. 2001. Der Kolkrahe (*Corvus corax*) in Hessen und Rheinland-Pfalz - Ausrottung, Wiederbesiedlung und Aktueller Bestand. *Charadrius* 3: 109-112.
- Mueller T.** and S. Roesner. 2000. Der Kolkrahe (*Corvus corax*) in Hessen -Wiederbesiedlung und Bestandsentwicklung. *Vogel und Umwelt*, 11, 3-11.

AWARDS

- **Smithsonian Institution:** Pre-Doctoral Fellowship 2007
- **National Science Foundation:** Doctoral Dissertation Improvement Grant 2006
- **University of Maryland:** Darwin Scholarship 2003

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