

KRITHI K. KARANTH

krithi.karant@gmail.com

EDUCATION

Duke University

Ph.D. in Environmental Science and Policy (2004 - 2008) and Certificate in Ecology

Dissertation Title: Mammal Diversity, Persistence, and Conservation in India.

Committee: Norm L. Christensen, James D. Nichols, Stuart L. Pimm, and Dean L. Urban

Yale University

M.E.Sc. in Environmental Science (2001 - 2003)

Thesis Title: Conservation in Bhadra Wildlife Sanctuary: Protecting a Park's Future and Meeting People's Needs.

Advisors: Lisa M. Curran and Oswald J. Schmitz

University of Florida

B.S. in Environmental Science (Summa Cum Laude, 1997 - 2001)

B.A. in Geography (Magna Cum Laude, 1997 - 2001) and Minor in Economics

Honors Thesis Title: Analysis of Factors Responsible for Land-Cover and Land-Use Change in Thailand.

Advisor: Michael W. Binford

PROFESSIONAL EXPERIENCE

Post-doctoral Research Fellow, Department of Ecology and Evolutionary Biology (Jan 2009 - present) with Ruth Defries at Columbia University.

Collaborator (2008 - present): Research on livelihood dependence of local communities, and impacts of conservation interventions at several parks in the Western Ghats with Lisa Naughton, Adrian Treves, Ullas Karanth, and Wildlife Conservation Society's India Program.

Principal Investigator, Duke University (2004 - 2008): Designed and implemented wildlife surveys to determine estimate occurrence, current distribution, and extinction of Indian mammals in collaboration with 100+ wildlife experts and 50+ institutions in North America, Europe, and Asia. Designed and implemented interviews and field surveys in 2002 and 2006 to assess impact of resettlement on relocation on 4000+ people in the reserve. Examined attitudes of 167 Indian conservationists through social surveys and interviews.

Research Associate and GIS Intern, Patuxent Wildlife Research Center, USGS (2003 - 2004): Analyzed 20-year breeding bird data to examine patterns of extinction, colonization, and latitudinal gradients in North-American ecoregions.

Principal Investigator, Yale University (2001 - 2003): Designed and implemented field surveys to assess impacts of human activities on Bhadra Wildlife Sanctuary.

Research Assistant, Yale University (2001 - 2003): Developed and organized database on tropical Forestry. Analyzed remote sensing biomass data for oil palm plantations in Africa. Conducted research on New-England frog deformities.

Research Assistant, University of Florida (1999 - 2001): Analyzed land-cover and land-use change in Thailand using LANDSAT imagery. Organized database on biomass extraction.

AWARDS AND HONORS

First Dean's Award (Nicholas School) for Outstanding Research Paper 2008
AAUW Dissertation Fellowship (selected as alternate) 2008 - 2009
Sigma Xi (Duke Chapter) Service 2006 - 2007
F.K. Weyerhaeuser Forest History Society Fellowship 2007 - 2008
Preparing Future Faculty Fellow, Duke University 2006 - 2007
PEO International Peace Scholarship for Women 2005 - 2006
Teaching Fellowship, Duke University 2004 - 2008
PEO International Peace Scholarship for Women 2004 - 2005
Yale University Doctoral Fellowship 2004 (declined)
University Scholar Award & Doctoral Fellowship, UNC Chapel Hill 2004 (declined)
School of Forestry and Environmental Studies Scholarship, Yale University 2001 - 2003
President's Honor Roll, University of Florida 2000
Dean's List School of Natural Resources and Environment, University of Florida 1998 - 2001

GRANTS RECEIVED

F.K. Weyerhaeuser Forest History Society Fellowship 2007 - 2008 (\$11,000)
Duke International Travel Award 2007 (\$1,750)
AZFA Clark Waldram Conservation Fund 2006 - 2007 (\$1,500)
Duke International Travel Award 2006 (\$1,500)
Conservation, Food and Health Foundation 2005 - 2006 (\$9,875)
Conservation and Research Small Grants Program, Cleveland Zoo 2005 - 2006 (\$3,000)
Sophie Danforth Conservation Fund, Roger Williams Park Zoo Grant 2005 - 2006 (\$1,000)
Duke International Travel Award 2005 (\$1,600)
IDEA Wild Research Fund 2005 (\$750)
Tropical Resources Institute Research Fellowship, Yale University 2002 (\$3,000)
FE&S Summer Internship Fund Scholarship, Yale University 2002 (\$2,000)
University Scholars Research Award, University of Florida 2000 - 2001 (\$2,500)

PUBLICATIONS

A. Published

Karant, K. K., Kramer, R, Qian, S, Christensen, N. L. 2008. Conservation Attitudes, Perspectives And Challenges in India. 2008. *Biological Conservation* 141: 2357-2367.

Karant, K. K. 2007. Making Resettlement Work: The Case of India's Bhadra Wildlife Sanctuary. *Biological Conservation* 139: 315-324. (First Nicholas School Dean's Award for Outstanding Student Paper 2008)

Karant, U. K., **Karant, K. K.** 2007. Free to Move: Conservation and Voluntary Resettlement in The Western Ghats of Karnataka, India. *Protected Areas and Human Displacement: A Conservation Perspective*. Editors K. H. Redford and E. Fearn. 29: 48-59.

Karant, K.K., Curran, L.M., Reuning-Scherer, J.D. 2006. Village Size and Forest Disturbance in Bhadra Wildlife Sanctuary, Western Ghats, India. *Biological Conservation* 128: 147-157.

Karant, K. K., Nichols, J. D., Sauer, J. R., Hines, J. E. 2006. Comparative Community Dynamics of North American Bird Communities Across Edge and Interior Habitats. *Journal of*

Biogeography 33: 674-682.

Karant, K. K. 2005. Addressing Relocation and Livelihood Concerns: Bhadra Wildlife Sanctuary. Economic and Political Weekly 40: 4809-4811.

Karant, K.K. 2003. Forest Use and Human-Wildlife Conflicts in Bhadra Wildlife Sanctuary, India. Tropical Resources Bulletin 22: 48-58.

Karant, K.K. 2001. Land-Cover and Land-Use Change within Sisaket, Thailand from November 1990 to March 2000. Journal of Undergraduate Research 2:8.

B. In Review or Preparation

Karant, K. K., DeFries, R. (Co-editors). Conservation and Livelihoods in India (Special Issue).

Karant, K. K., Nichols, J. D., Hines, J. E., Karant, U. K., Christensen, N. L. Patterns and Determinants of Species Occurrence. Journal of Applied Ecology (revising).

Karant, K. K., et al. The Shrinking Ark: Mammal Extinction in India. Submitting in 2009.

Karant, U. K., **Karant, K. K.** Conservation and Voluntary Resettlement in The Western Ghats of Karnataka, India.

Karant, K. K., Nichols, J. D., Hines, J. E. Examining Co-Occurrence of Indian Mammals. Submitting in 2009.

Karant, K. K., Nichols, J. D., Sauer, J. R., Hines, J. E. North American Bird Community Dynamics Along Latitudinal Gradients (in prep).

Karant, K. K., Nichols, J. D., Hines, J. E. Determining Mammal Species Richness Patterns in India (in prep).

Karant, K. K. Patterns and Determinants of Primate Occurrence in India. (in prep).

C. Non-peer reviewed

Karant, K. K. 2008. Mammal Diversity, Persistence, and Conservation in India. Doctoral Dissertation. Duke University.

Karant, K. K. 2007. Report for Forest History Society.

Karant, K. K. 2006. Grant Report for Cleveland Metroparks Zoo.

Karant, K. K. 2006. Grant Report for Conservation, Food, and Health Foundation.

Karant, K. K. 2001. Integrated Analysis of Economic and Ecological Factors responsible for Land-Cover and Land-Use Changes in Sisaket, Thailand. Undergraduate Honors Thesis.

PRESENTATIONS

Karant, K. K. Mammal Extinctions in India. University of Wisconsin, Madison, WI, USA (April 2009, scheduled for Women in Science and Engineering Speaker Series).

- Karanth, K. K.** Large Mammal Extinctions and Conservation in India. Wildlife Conservation Society, New York, NY, USA (Mar 16th 2009, scheduled).
- Karanth, K. K.** Large Mammal Extinctions and Conservation in India. Columbia University, New York, NY, USA (Mar 3rd 2009, scheduled).
- Karanth, K. K.** Mammal Extinctions and Conservation Resettlement in India. University of Toronto, Toronto, Canada (Jan 20th 2009).
- Karanth, K. K.** Conservation Attitudes and Perspectives in India. Indo - US Workshop on Geospatial Technology for Wildlife, Jodhpur, India (Dec 13th 2008).
- Karanth, K. K.** Making Resettlement Work: India's Bhadra Wildlife Sanctuary. American University, Washington D.C., USA (Oct 2008).
- Karanth, K. K.** Mammal Extinctions and Resettlement in India. Conservation International, Arlington, VA, USA (Mar 2008).
- Karanth, K. K.** Conservation Attitudes in India. Society for Conservation Biology, Chattanooga, TN (Jul 2008, declined speed presentation).
- Karanth, K. K.,** Curran, L. M., Reuning-Scherer, J. D. Village Size and Forest Disturbance in India's Bhadra Wildlife Sanctuary. Society for Conservation Biology, San Jose, CA, USA (Jun 2006).
- Karanth, K. K.** Making Resettlement Work: Lessons from India's Bhadra Wildlife Sanctuary. Society for Conservation Biology, San Jose, CA, USA (Jun 2006, poster).
- Karanth, K. K.** Examining Land-cover and land-use change in Thailand. University Scholar's Symposium, Gainesville, FL, USA (Apr 2001).
- Participant** at Duke Student Conference on Conservation, Durham, NC, USA (2005); Student International Discussion Group Conference, Durham, NC, USA (2004, 2005); Yale Tropical Resources Institute Conference, New Haven, CT, USA (2002, 2003); Association for Tropical Biology, Bangalore, India (2002).

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant and, Duke University, 2004 - 2008 and Yale College, 2003

Designed exams, led discussion, provided technical writing assistance, critiqued policy memos, presentations, and proposals.

Undergraduate courses: Introduction to environmental science and policy (4 semesters, Duke); Integrating environmental science and policy (2 semesters, Duke); Global problems of population growth (1 semester, Yale)

Graduate courses: Applied data analysis for environmental science; Applied population ecology (1 semester each, Duke)

Guest Lecturer

Presented lectures on biodiversity and ecosystems (introduction to environmental science) and matrix population models (applied population ecology)

Co-advisor to masters student Sumati B, M. Sc, National Centre for Biological Sciences, Bangalore, India 2004-2006

Preparing Future Faculty Fellow at Duke University, 2006 - 2007. One of 30 graduate students selected by Graduate School to participate in year long program. Mentored by Dr. Greg Haenel at Elon Univeristy (Elon, NC).

Mentored 5 undergraduate and master's students at Duke University, 2004 - 2008

Participant in courses and workshops on most recent teaching pedagogy including Introduction to College Teaching, and the Teaching Ideas at Duke University

Designed Course Syllabi for introductory course in environmental science, and advanced course in conservation biology that encourage critical thinking and student participation as well as involve field trips and hands on classroom activities.

ACTIVITIES AND SKILLS

Technical Skills:

ArcGIS, ERDAS Imagine, SAS, R, PRESENCE, and Microsoft Office

Professional Memberships:

Sigma Xi Full Member

Association of American Geographers

Society for Conservation Biology

Alpha Zeta Member

Reviewer:

Biological Conservation (2)

Society for Conservation Biology (10)

Society & Natural Resources (1)

Indian Languages: Kannada, Hindi, Tulu, Tamil, and Kodava

Travel: Visited 15 countries on 5 continents

Articles Featuring My Work:

- India resettlement study, Tim Lucas (Duke Environment Magazine, Spring 2008)
- The Log: First Dean's Award, Tim Lucas (Duke Environment Magazine, Fall 2008)
- Bhadra Relief Package Declared Best, Jayashri Aladi (The Hindu, 11/16/2007)
- Study Examines Use of Human Resettlement as Conservation Tool in Indian Tiger Reserve, Tim Lucas (<http://www.nicholas.duke.edu/news/ns-krithi.html>)
- Successful Relocation of Villagers From Wildlife Sanctuary, Jeremy Hance (http://news.mongabay.com/2007/0929-hance_india.html)
- Yale and the World (http://world.yale.edu/regions/south_asia.html)
- Journal of Undergraduate Research Scholar Profile, University of Florida (http://www.clas.ufl.edu/jur/200105/papers/paper_karanth_bio.html)