

Lucas N. Joppa

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EDUCATION:

DUKE UNIVERSITY, Durham, NC

PhD, University Program in Ecology, GPA 3.98/4.0
Nicholas School of the Environment and Earth Sciences
Matriculated: 08/21/2006
Expected Completion: 09/01/2009
Committee: Dr. Stuart Pimm (Chair), Dr. Norman Christensen, Dr. Dean Urban,
Dr. Jennifer Swenson

UNIVERSITY OF WISCONSIN-MADISON, Madison, WI

Bachelor of Science in Wildlife Ecology
Secondary Major in Zoology
GPA: 4.0/4.0 (Major), 3.98/4.0 (Cumulative)
Completed: 05/15/2004
Advisor: Dr. Stanley Temple

PROFESSIONAL EXPERIENCE / EMPLOYMENT:

Post Doctoral Researcher (September 1, 2009-Present)

-Jointly between Microsoft Research and Duke University

National Science Foundation Graduate Research Fellow (PhD, 2006-2009)

-Nicholas School of the Environment, Duke University

Co-founder, Co-Director EarthAudit LLC

-An organization working towards interactive, dynamic, spatially explicit Internet mapping solutions to conservation problems

Ecologist (2005-2006)

-Department of Limnology, University of Wisconsin-Madison

Consultant to Malawi's Department of National Parks and Wildlife (2004-2005)

-United States Peace Corps Volunteer

Primary Researcher: Butler's gartersnake conservation in Wisconsin (2003)

-Jointly between the Department of Wildlife Ecology, University of Wisconsin-Madison and the Wisconsin Department of Natural Resources.

TEACHING EXPERIENCE:

Teaching Assistant, Nicholas School of the Environment, Duke University (2008)
-Course: "Conservation Biology"

Teaching Assistant: Nicholas School of the Environment, Duke University (2007)
-Course: "Environmental Solutions: Tackling Sources"

GRANTS AND AWARDS:

Society for Conservation Biology Travel Grant (\$300) (2009)
Duke University Graduate School Travel Grant (\$500) (2009)
Society for Conservation Biology Travel Grant (\$300) (2008)
Duke University Graduate School Travel Grant (\$500) (2008)
Duke University Nicholas School of the Environment Travel Grant (\$200) (2008)
National Science Foundation Travel Grant (\$1000) (2008)
Duke University Graduate School Research Award (\$1,700) (2007)
Explorer's Club Exploration Fund Award (\$1,200) (2007)
Duke International Group Lazar Research Award (\$400) (2007)
National Science Foundation Graduate Research Award (\$90,000) (2004)
UW-Madison Bookstore Undergraduate Research Award (\$1,000) (2004)
Irving Conservation Scholarship recipient (\$1,000) (2003-2004)
UW-Madison Holstrum Environmental Fellowship (\$5,000) (2003)
Garden Club of America Undergraduate Environmental Research Grant (\$2,000) (2003)
Lois Almon Grant (\$1000) (2003)
Midwest Wildlife Society Student of the Year (2003-2004)
UW-Madison College of Agriculture and Life Science Outstanding Junior Award (2003)
UW-Madison College of Agriculture and Life Science Outstanding Senior Award (2004)
Stuart E. McAlraith Science Scholarship recipient (2001)

PUBLICATIONS:

Joppa, L.N.; Williams, C.K.; Casper, G.S.; Temple, S.A. [Accepted]. Environmental factors affecting sampling success of artificial cover objects. *Herp. Cons. Biol.*

Joppa, L.N.; Pfaff, A. [In Press]. Re-assessing The Forest Impacts of Protection: The challenge of non-random location & a corrective method. *Annual Review of Ecological Economics*.

Joppa, L.N. 2009. An ecologist calls for a citizen-science 'Wiki'. *Nature*.
doi:10.1038/459619e

Joppa, L.N.; Bascompte, J.; Montoya, J.; Sole, R.; Sanderson, J.; Pimm, S.L. 2009. Reciprocal specialization does not structure ecological networks. *Ecology Letters*.
doi: 10.1111/j.1461-0248.2009.01341.x

- Jenkins, C.; **Joppa, L.N.** 2009. Expansion of the Global Protected Area System. *Biological Conservation*. doi:10.1016/j.biocon.2009.04.016
- Joppa, L.N.**; Loarie, S.R.; Pimm, S.L. 2009. On population growth near protected areas. *PLoS ONE*. 4(1): e4279. doi:10.1371/journal.pone.0004279.
- Joppa, L.N.**; Loarie, S.R.; Pimm, S.L. 2008. On the protection of protected areas. *Proceedings of the National Academy of Sciences (USA)*. 105(18):6673-6678.
- Schick, R.S.; Clark, J.S.; Loarie, S.R.; Colchero, F.; Best, B.D.; Boustany, A.; Conde, D.A.; Halpin, P.N.; **Joppa, L.N.**; McClellan, C.M. 2008. Understanding movement data and movement processes: what is the state of the art? *Ecology Letters*.
- Loarie, S.R.; **Joppa, L.N.**; Pimm, S.L. 2008. Satellites miss environmental priorities: A response to Loveland *et al.* and Kark *et al.* *Trends in Ecology and Evolution*. 23(4):183-184.
- Loarie, S.R.; **Joppa, L.N.**; Pimm, S.L. 2007. Satellites miss environmental priorities. *Trends in Ecology and Evolution*. 22(12):630-632.
- Vander Zanden, M.J., **L. Joppa**, B.C. Allen, S. Chandra, D. Gilroy, Z. Hogan, J.T. Maxted, J. Zhu. 2007. Designating *Hucho taimen* fishery management zones in Mongolia based on simulation of spawning dates. *Ecological Applications*. 17(8):2281-2289.
- Joppa, L.N.**; Temple, S.A. 2005. Use of upland habitat by the Butler's gartersnake (*Thamnophis butleri*). *Chicago Herpetological Bulletin*. 40(1):221-227.
- Joppa, L.N.** 2002. An overview of the biological, ethical, and social implications of current and potential organ replacement therapies. *University of Wisconsin LaCrosse Journal of Undergraduate Research* 5:361-373.

MANUSCRIPTS IN REVIEW OR PREPARATION:

- Joppa, L.N.** [In Review]. High & Far: How the world's protected areas have avoided threat. *Proceedings of the National Academy of Sciences (USA)*.
- Joppa, L.N.**; Pfaff, A. [Submitted]. Global Park Impacts: How could parks avoid more deforestation? *Proceedings of the National Academy of Sciences (USA)*.
- Joppa, L.N.**; Roberts, D.; Raven, P.; Pimm, S.L. [In Prep]. How many species of flowering plants are there?
- Sole, R.; Montoya, J.; **Joppa, L.N.**; Pimm, S.L. [In Prep]. Predictive modeling of ecological networks.

Higgins, S.; Vander-Zanden, J.; **Joppa, L.N.** [In Prep]. Ecosystem responses to dreissenid mussel invasions.

PRESS COVERAGE / POPULAR PRESS ARTICLES:

Joppa, L.N. January 28th, 2009. Eno: Transfer of West Point Park a win-win for Durham. *Durham Herald Sun*.

Balazina, A. June 4th, 2009. Areas protegidas aumentam no mundo. *Fohla de S. Paulo*. (covered 2009 *Biological Conservation* paper "Expansion of the global protected area system")

Hance, J. June 1st, 2009. World governments to miss goal protecting 10% of every ecoregion by next year. *MongaBay.com*. (covered 2009 *Biological Conservation* paper "Expansion of the global protected area system")

Leber, J. January 27th, 2009. On Second Thought. *Conservation Magazine's Journal Watch*. (covered 2009 *PloS ONE* paper "On population growth near protected areas")

April 30th, 2008. Watching the Detectives. *Conservation Magazine's Journal Watch*. (covered 2008 *PNAS* paper "On the protection of protected areas")

Basgall, M. October 10, 2008. Duke's biodiversity team includes people in solutions. *Duke Research*.

Kalaugher, L. April 30, 2008. Success of rainforest protection depends on geography. *Environmental Research Letters*. (highlighted 2008 *PNAS* paper).

Joppa, L.N. 2003. Butler's gartersnake study at Wehr Nature Center. Wehr Nature Center Report (Wehr Words). 4:1-7.

PRESENTATIONS:

Joppa, L.N. 2009. Global Park Impacts. *Summer Ecology Seminar, Duke University*. Oral Presentation.

Joppa, L.N. 2009. Global impacts of protected areas. *Invited Duke University Oosting Memorial Graduate Student Seminar*. Oral Presentation.

Joppa, L.N.; Bascompte, J.; Montoya, J.; Sole, R.; Sanderson, J.; Pimm, S.L. 2009. Specialization in ecological networks. *Microsoft Research, Cambridge, UK*. Oral Presentation.

Joppa, L.N.; Bascompte, J.; Montoya, J.; Sole, R.; Sanderson, J.; Pimm, S.L. 2009. Reciprocal specialization does not structure ecological networks. *Duke Biology Departmental Seminar*. Oral Presentation.

Joppa, L.N.; Loarie, S.R.; Pimm, S.L. 2009. On human population growth around protected areas. *Society for Applied Anthropology*. Oral presentation.

Joppa, L.N. 2009. Protected areas: Re-assessing conservation impact. *University of New Mexico Geography Departmental Seminar*. Oral Presentation.

Higgins, S.; Vander-Zanden, J.; **Joppa, L.N.** 2008. Ecosystem responses to dreissenid mussel invasions. *Ecological Society of America*.

Joppa, L.N.; Loarie, S.R.; Pimm, S.L. 2008. On the protection of protected areas. *Society for Conservation Biology International Conference (USA)*. Oral Presentation.

Joppa, L.N. 2008. Megaparks for Metapopulations. *Duke University Student International Discussion Group*. Oral Presentation.

Joppa, L.N.; Loarie, S.R.; Pimm, S.L. 2007. Are protected areas protected? *Society for Conservation Biology International Conference (South Africa)*. Poster Presentation.

PROFESSIONAL AND SERVICE ACTIVITIES:

Vice President: Society for Conservation Biology – Triangle Chapter

Board Member: School House of Wonder (NGO running nature education camps)

Co-Director: Duke University Program in Ecology Seminar Series

Co-Director: 2008 Oosting Seminar

Society for Conservation Biology: Member

Society for Applied Anthropology: Member

Butler's Gartersnake Conservation Science Team Member

LABORATORY EXPERIENCE:

Undergraduate Researcher: Meyer Lab, Department of Neurophysiology, University of Wisconsin-Madison (08/2002-06/2003)

Undergraduate Researcher: Karasov Lab, Department of Wildlife Ecology, University of Wisconsin-Madison (08/2003-05/2004)

LANGUAGES:

Two years experience in Chitumbuka

SOFTWARE:

ArcGIS, R, Python, Adobe Suite, Microsoft Office

CERTIFICATIONS:

Print, Radio, and TV certified by News Certified Exchange
(<http://www.newscertified.com/>)