

ZACHARY S. BROWN

Doctoral Candidate in Environmental and Resource Economics
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Education

	FIELDS	DEGREE	YEAR
<i>Lawrence University</i>	Major in mathematics-economics Minor in government	BA (cum laude)	2005
<i>Duke University</i>	Environmental and resource econ.	PhD	2011 (expected)

Publications

- M. F. Bellemare; **Z. S. Brown**. *On the (Mis)Use of Wealth as a Proxy for Risk Aversion*. *Amer. J. Agr. Econ.* 2010. **92**(1): 273-282

Working papers

- **Z. S. Brown**; K. Dickinson; R. A. Kramer. *The qualitative importance of fitness costs in the economic management of biocide resistance: An application to malaria control using insecticide spraying*. July 2010. Paper presented at WCERE 2010 special session on “Externalities and common property problems in health” organized by Ramanan Laxminarayan, Soren Anderson, and Markus Herrmann.
- **Z. S. Brown**, D. Ocan, C. Oryema, D. Miteva, J. Okello-Onen, R. A. Kramer. *A survey to assess household perceptions of indoor residual spraying programs to control malaria in Gulu and Oyam districts of Uganda*. July 2010.
- **Z. S. Brown**; K. Koelle; R. A. Kramer. *Modeling the simultaneous impacts of insecticide and antimalarial resistance in the economic analysis of malaria control portfolios*. June 2010. Winning paper for IIASA 2009 Peccei Award. Presented at WCERE 2010.
- **Z. S. Brown**, D. Miteva, R. A. Kramer. *Revisiting a continuous choice economic experiment to test the Independence Axiom and elicit risk preferences*. March 2010. Presented at SCC-76 2010.
- **Z. S. Brown**. *Fully characterizing the set of time consistent discount functions*. January 2010. Paper presented at organized symposium on “How behavioral economics can inform policymakers” coordinated by Helen Pushkarskaya at AAEEA 2010 Annual Meeting.

Conference presentations

- 2010 “Parasite to Prevention” with Malaria Journal (Edinburgh, Scotland) – Poster
EcoHealth Meetings (London, UK) – Poster
Applied and Agricultural Economics Association Annual Meeting (Denver, CO)
World Congress of Environmental and Resource Economists (Montreal, Canada)
Economics and Management of Risk in Agriculture and Natural Resources (Destin, FL, USA)
- 2009 Economics and Management of Risk in Agriculture and Natural Resources (Galveston, TX, USA)

Interdisciplinary research projects and funding

- Kramer, Randall A. (PI); **Zachary S. Brown** (co-PI). *The socio-behavioral determinants of indoor residual insecticide spraying in northern Uganda*. National Science Foundation, Doctoral Dissertation Improvement Grant. Funding amount: \$14,980.
- Kramer, Randall A. (PI); Katia Koelle (co-PI); **Zachary S. Brown** (doctoral student). *A bioeconomic approach to managing insecticide resistance in malaria control*. Funding amount: \$34,690. Funded through the Duke University Center for the Comparative Biology of Vulnerable Populations (CCBVP).

Teaching Experience and Awards

- **Preparing Future Faculty Fellow.** Duke University. Fall 2010 – 2011.
- **Guest lecturer** in “Ecology, Evolution, and Physiology of Infectious Disease” – Spring 2010
Instructors: Katia Koelle, Sönke Johnsen (Duke Biology)
- **Teaching assistant:**
 - Economics of Environmental Management. Fall 2009 and 2007.
 - Integrating Science and Policy. Fall 2008. (while serving as research assistant)
 - Sustainability and Renewable Resource Economics. Spring 2006 and 2011.
 - Resource and Environmental Economics. Fall 2005.

Professional Appointments

- International Institute for Applied Systems Analysis. Young Scientists Summer Program. Vienna, Austria. June/Aug. 2009. Supervisor: Dr. Andrew Noymer (UC-Irvine).
- Resources for the Future. Intern. Washington, DC, USA. June/Aug. 2007.
- Student Conservation Assoc. / WV Dept. Env. Protection. Intern. Summersville, WV. 2005/06.
- UN Comm. for Latin America and the Caribbean. Intern. Santiago, Chile. Fall 2004.
- US Fish and Wildlife Service. Biological technician. Elkins, WV. Summers 2002/03.

Honors, Awards, and Achievements

- Peccei Award 2009, International Institute for Applied Systems Analysis (IIASA), Vienna, Austria.

References

- **Randall A. Kramer.** Committee chair. Professor of Environmental Economics, Duke.
Email: kramer@duke.edu. Phone: +1 919 613-8072
- **Marc F. Bellemare.** Committee member, coauthor. Assistant Professor of Economics, Duke.
Email: marc.bellemare@duke.edu. Phone: +1 919 886-5351
- **Katia Koelle.** Committee member, coauthor. Assistant Professor of Biology, Duke.
Email: katia.koelle@duke.edu. Phone: +1 919 660-9457
- **Pietro Peretto.** Committee member. Professor of Economics, Duke.
Email: peretto@econ.duke.edu. Phone: +1 919 660-1807
- **Martin D. Smith.** Committee member. Associate Professor of Environmental Economics.
Email: marsmith@duke.edu. Phone: +1 919 613-8028

Other Collaborators and Advisors

- **Dr. Andrew Noymer.** Collaborator, Assistant Professor of Sociology, UC Irvine; IIASA.
- **Dr. Jose Siri.** Coauthor, Health and Global Change Project, IIASA.
- **Dr. Katie Dickinson.** Coauthor. National Center for Atmospheric Research, Boulder, CO.

Selected Graduate Coursework and Training

- **Microeconomics** (general equilibrium, game theory; 1 year sequence, A)
- **Econometrics** (regression analysis and inference; 1 year sequence, A/A-)
- **Economic Growth I & II** (current evidence and theory of long-run economic growth, A+)
- **Discrete choice econometrics** (econometric models for discrete choice data, A)
- **Natural Resource Economics** (natural resource theory and empirics, A)
- **Environmental Economics** (field course, A)

Professional Affiliations

- **Association of Environmental and Resource Economists**
- **Applied and Agricultural Economics Association**