

# Justin Kitzes

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## EDUCATION

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| Ph.D. | University of California, Berkeley<br>Environmental Science, Policy and Management<br>Committee: Adina Merenlender and John Harte (chairs), William Lidicker, Jr. | in progress |
| M.S.  | Stanford University<br>Earth Systems<br><i>Environmental &amp; Health Impacts of Wheat Agriculture in the Yaqui Valley, Mexico</i><br>Advisor: Rosamond Naylor    | 2005        |
| B.S.  | Stanford University<br>Earth Systems<br><i>Mechanical variation in <u>Mastocarpus papillatus</u> along a gradient of force</i><br>Advisor: Mark Denny             | 2004        |

## HONORS AND AWARDS

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| NSF Graduate Research Fellowship, National Science Foundation              | 2009 - 2012 |
| ESPM Departmental Fellowship, University of California, Berkeley           | 2008        |
| Chancellor's Fellowship, University of California Santa Barbara (declined) | 2008 - 2014 |
| Earth Systems Award for Academic Excellence, Stanford University           | 2004        |
| SIG International Fellowship, Stanford in Government                       | 2004        |

## PUBLICATIONS

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- Harte, J., & **Kitzes, J.** (*In Press*). The use and misuse of species area relationships in predicting climate-driven extinction. In L. Hannah (Ed.), *Saving a Million Species: Extinction Risk from Climate Change*. Island Press.
- Galli, A., **Kitzes, J.**, Niccolucci, V., Wackernagel, M., Wada, Y., & Marchettini, N. (*In Press*). Assessing the global environmental consequences of national economic growth through the Ecological Footprint: a focus on China and India. *Ecological Indicators*.
- Khagram, S., Nicholas, K. A., Bever, D. M., Warren, J., Richards, E. H., Oleson, K., **Kitzes, J.**, et al. (2010). Thinking about knowing: conceptual foundations for interdisciplinary environmental research. *Environmental Conservation*, 37(4), 388-397.
- Kitzes, J.**, & Wackernagel, M. (2009). Answers to common questions in Ecological Footprint accounting. *Ecological Indicators*, 9(4), 812-817.
- Kitzes, J.**, Galli, A., Bagliani, M., Barrett, J., Dige, G., Ede, S., et al. (2009). A research agenda for improving national Ecological Footprint accounts. *Ecological Economics*, 68(7), 1991-2007.
- Kitzes, J.**, Moran, D., Galli, A., Wada, Y., & Wackernagel, M. (2009). Interpretation and application of the Ecological Footprint: A reply to Fiala (2008). *Ecological Economics*, 68(4), 929-930.

8. Moran, D. D., Wackernagel, M. C., **Kitzes, J. A.**, Heumann, B. W., Phan, D., & Goldfinger, S. H. (2009). Trading spaces: Calculating embodied Ecological Footprints in international trade using a Product Land Use Matrix (PLUM). *Ecological Economics*, 68(7), 1938-1951.
7. **Kitzes, J.**, Wackernagel, M., Loh, J., Peller, A., Goldfinger, S., Cheng, D., & Tea, K. (2008). Shrink and share: humanity's present and future Ecological Footprint. *Philosophical Transactions of the Royal Society B*, 363(1491), 467-475.
6. Galli, A., **Kitzes, J.**, Wermer, P., Wackernagel, M., Niccolucci, V., & Tiezzi, E. (2008). An exploration of the mathematics behind the Ecological Footprint. *International Journal of Ecodynamics*, 2(4), 250-257.
5. Wackernagel, M., & **Kitzes, J.** (2008). Ecological Footprint. In S. Jorgensen & B. Fath (Eds.), *Encyclopedia of Ecology* (pp. 1031-1037). Elsevier.
4. Moran, D. D., Wackernagel, M., **Kitzes, J. A.**, Goldfinger, S. H., & Boutaud, A. (2008). Measuring sustainable development – Nation by nation. *Ecological Economics*, 64(3), 470-474.
3. Niccolucci, V., Galli, A., **Kitzes, J.**, Pulselli, R., Borsa, S., & Marchettini, N. (2008). Ecological Footprint analysis applied to the production of two Italian wines. *Agriculture, Ecosystems & Environment*, 128(3), 162-166.
2. Wackernagel, M., **Kitzes, J.**, Moran, D., Goldfinger, S., & Thomas, M. (2006). The Ecological Footprint of cities and regions: comparing resource availability with resource demand. *Environment and Urbanization*, 18(1), 103-112.
1. **Kitzes, J. A.**, & Denny, M. W. (2005). Red algae respond to waves: morphological and mechanical variation in *Mastocarpus papillatus* along a gradient of force. *Biological Bulletin*, 208, 114-119.

#### PRESENTATIONS

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9. Designing reserve networks for biodiversity persistence: An allometric community approach (Poster). ESPM Graduate Research Symposium, University of California, Berkeley. May 6, 2011.
8. National Ecological Footprint accounts: Measuring global demand for ecosystem goods and services. Bay Area Conservation Biology Symposium, Stanford University and Society for Conservation Biology, Stanford, California. January 31, 2009.
7. Ecological Footprint accounting principles. International Symposium on Global Sustainability, Kyoto University, Kyoto, Japan. November 26-27, 2007. (Invited)
6. A "constant global hectare" method for representing ecological footprint time trends. International Ecological Footprint Conference, Cardiff University, Cardiff, United Kingdom. May 8-10, 2007.
5. A research agenda for improving national Ecological Footprint accounts. International Ecological Footprint Conference, Cardiff University, Cardiff, United Kingdom. May 8-10, 2007.
4. National footprint accounting: Russia as a case study. International Workshop on Sustainable Resource Use, Doshisha University, Kyoto, Japan. March 16, 2007. (Invited)
3. Sustainability accounting with the Ecological Footprint. UNU-Zero Emissions Symposium 2006: Contemplating on Sustainability, United Nations University, Tokyo, Japan. October 20, 2006. (Invited)
2. The health and environmental costs of agriculture in the Yaqui Valley, Mexico: Framework and preliminary data (Poster). Stanford University School of Earth Sciences Research Review, Stanford University,

Stanford, California. April 2005.

1. Morphological and mechanical responses to wave-induced drag in *Mastocarpus papillatus* (Rhodophyta). China Point Symposium, Stanford University Hopkins Marine Station, Monterey, California. May 2004.

#### TEACHING AND MENTORING

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##### COURSES AND WORKSHOPS

University of Phoenix, Online - Faculty	2010 -
Ecology and Evolution, BIO/315 (2 courses, 5 weeks each)	
Principles of Biology, BIO/101 (3 courses, 5 weeks each)	
Global Footprint Network - Trainer	2006 - 2009
Ecological Footprint Technical Training Course (7 workshops, 2 days each)	
Stanford University - Teaching Assistant	2003 - 2005
Introduction to Earth Systems, ESYS 10 (2 courses, 1 quarter each)	
Earth Systems Senior Seminar, ESYS 210 (2 courses, 1 quarter each)	
Goldman Undergraduate Honors Program (1 course, 1 year)	

##### MENTORED STUDENTS AND INTERNS

- Benjamin Wheeler - Undergraduate student, University of California, Berkeley
- Bryan Frossard - Undergraduate student, University of California, Berkeley
- Alessandro Galli - Ph.D. student, University of Siena
- Katsunori Iha - Research Intern, Global Footprint Network

##### OTHER ACTIVITIES AND AFFILIATIONS

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Invited reviewer for *Journal of Biogeography*, *Basic and Applied Ecology*, *Conservation Letters*, *Ecological Modelling*, *Journal of Environmental Management*, *Ecological Economics*, *Land Use Policy*, *Journal of Cleaner Production*, *Environmental Monitoring and Assessment*, *Environment and Development Economics*, *Journal of Environmental Assessment Policy and Management*, *Sustainability*

Faculty of 1000, Associate Faculty Member (with John Harte)	2010 -
Society for Conservation Biology, North American 2012 Conference Committee	2010 -
Society for Conservation Biology, Ecological Footprint Committee	2008 -

Professional memberships include *Ecological Society of America*, *Society for Conservation Biology*, *The Wildlife Society (Western Section)*

More than 40 public presentations and classroom lectures on topics in ecology, environmental science, and conservation biology.