

# Jay Odenbaugh

0615 SW Palatine Hill Rd  
97202 Portland OR, USA  
☎ +1 (503) 957 4674  
☎ +2 (503) 768 7377  
☎ +3 (456) 789 012  
✉ jay@lclark.edu

🌐 <http://jay-odenbaugh.squarespace.com/>

Areas of Specialization: Philosophy of Biology, History and Philosophy of Science

Areas of Competence: Aesthetics, Ethics, Metaphysics, Pragmatism

## Employment

- 2011– **Chair**, *Lewis and Clark College*.
- 2009– **Associate Professor**, *Lewis and Clark College*.
- 2003–2009 **Assistant Professor**, *Lewis and Clark College*.
- 2001–2003 **Lecturer**, *University of California San Diego*.

## Education

- 1997–2001 **Ph.D.**, *University of Calgary, Alberta, Canada, Philosophy*.  
*Searching for Patterns, Hunting for Causes: A Philosophical Examination Mathematical Modeling in Theoretical Ecology*, Advisor: Marc Ereshefsky
- 1994–1996 **M.A.**, *Southern Illinois University at Carbondale, Carbondale, IL, Philosophy*.
- 1990–1994 **B.A.**, *Belmont University, Nashville, TN, Philosophy, Biology*.

## Publications

33. "Nothing in Ethics Makes Sense Except in the Light of Evolution? Natural Goodness and Evolutionary Biology" *Synthese*. Forthcoming.
32. "Environmental philosophy 2.0: Ethics and conservation biology for the 21st century," *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*. In press.
31. "Managed Relocation: Integrating the Scientific, Regulatory, and Ethical Challenges," Mark W. Schwartz, Jessica J. Hellmann, Jason M. McLachlan, Dov F. Sax, Justin O. Borevitz, Jean Brennan, Alex E. Camacho, Gerardo Ceballos, Jamie R. Clark, Holly Doremus, Regan Early, Julie R. Etterson, Dwight Fielder, Jaqueline L. Gill, Patrick Gonzalez, Nancy Green, Lee Hannah, Dale W. Jamieson, Debra Javeline, Ben A. Minter, Jay Odenbaugh, Stephen Polasky, David M. Richardson, Terry L. Root, Hugh D. Safford, Osvaldo Sala, Stephen H. Schneider, Andrew R. Thompson, John W. Williams, Mark Vellend, Pati Vitt, and Sandra Zellmer, *Bioscience* (2012) 62: 732–743.
30. "Building Trust, Removing Doubt? Robustness Analysis and Climate Modeling," *Conceptual Issues in Climate Modeling* (eds.) Lloyd E. and E. Winsberg, University of Chicago Press, forthcoming.

29. "Neutrality, Niche, and Nulls: Causal Inference in Ecology," (eds.) Waters, K. and J. Woodward, *Biology and Causation*, University of Minnesota Press, forthcoming.
28. "Searching for Patterns, Hunting for Causes: Robert MacArthur, the Mathematical Naturalist," *Biology Outside the Box*, (eds.) Michael Dietrich and Oren Harman, University of Chicago, forthcoming.
27. "Consensus, Climate, and Contrarians," *The Environment: Philosophy, Science, and Ethics* (2012) (eds.) William P. Kabasenche, Michael Ourke, and Matthew H. Slater, MIT Press.
26. "True Lies: Robustness, Realism, and Models," *Philosophy of Science* (2011) 78: 1177–1188.
25. "Advocacy, Ecology, and Environmental Ethics," *Nature Education Knowledge* 3(3): 8, 2012.
24. "This American Life," *Ethics, Policy Environment*, 14 (1): 27–29.
23. "Buyer's Beware: Robustness Analyses in Economics and Biology," (with Anna Alexandrova) *Biology and Philosophy*, (2011), 26 (5):757–771.
22. "A General Theory of Ecology?" *A General Theory of Ecology* (2011), (eds.) Scheiner, S. and M. Willig, University of Chicago Press.
21. "Robert MacArthur," *Handbook of the Philosophy of Science, Volume 11 - Philosophy of Ecology* (2011) (eds.) Bryson Brown, Kevin de Laplante and Kent Peacock, North Holland.
20. "Complex Ecological Systems," *Handbook of the Philosophy of Science, Volume 11 - Philosophy of Complex Systems* (2011), Cliff Hooker (ed.), North Holland.
19. "Subsistence versus Sustainable Emissions: Equity and Climate Change" *Environmental Philosophy*(2010), 7 (4): 1–15
18. "Philosophy of the Environmental Sciences," *New Waves in the Philosophy of Science* (2010) (eds.) Magnus, P. D. and J. Busch, Palgrave Macmillan, 155–171.
17. "On the Very Idea of an Ecosystem," *New Waves in Metaphysics* (2010) (ed.) Hazlett, A., Palgrave, Macmillan.
16. "Philosophy of Biology," (with Matt Haber, Andrew Hamilton, and Samir Okasha) *Philosophy of the Special Sciences* (2010) (ed.) F. Allhof, Wiley-Blackwell.  
 "The Edges and Boundaries of Biological Objects," (with Matt Haber) (2009) *Biological Theory*, 4: 219–224.
15. "A Field Guide to the Philosophy of Ecology," Mark Colyvan, Stefan Linquist, William Grey, Paul E. Griffiths, Jay Odenbaugh, and Hugh P. Possingham, *Ecology and Society* (2009), Volume 14, Number 2.
14. "Models in Biology," *Routledge Encyclopedia of Philosophy* (2009)(ed.) E. Craig, London: Routledge.
13. "Sahotra Sarkar, *Biodiversity and Philosophy: An Introduction*," *Biology and Philosophy* (2009), 24: 541–550.

12. "Models," *Blackwell Companion to the Philosophy of Biology*, edited by S. Sarkar and A. Plutynski, Blackwell Press (2008).
11. "Ecology and the Inescapability of Values," *Science and Engineering Ethics* (2008), 14: 593–596.
10. "Seeing the Forest and the Trees," *Philosophy of Science* (2007) 74: 628–641
9. "The Strategy of 'The Strategy of Model Building in Population Biology'," *Biology and Philosophy* (2006) 21: 607–621).
8. "A Message in the Bottle? The Constraints of Experimentation on Scientific Reasoning," *Philosophy of Science* (2006) 73: 720–729.
7. "Struggling with the Sciences of Ecology: A Critical Notice of Greg Cooper's *The Science of the Struggle for Existence: On the Foundations of Ecology*," *Biology and Philosophy* (2006) 21: 395–409.
6. "Idealized, Inaccurate but Successful: A Pragmatic Approach to Evaluating Models in Theoretical Ecology," *Biology and Philosophy* (2005) 20: 231–255.
5. "The 'Structure' of Population Ecology: Philosophical Reflections on Structured and Unstructured Models," in K. Cuddington and B. Beisner *Ecological Paradigms Lost*, Academic Press (2005) 63–76.
4. "Ecology," *Encyclopedia for the Philosophy of Science* (ed.) S. Sarkar, and J. Pfeifer, Routledge Press (2005) 215–224
3. "Complex Systems, Trade-Offs and Mathematical Modeling: A Response to Sober and Orzack" *Philosophy of Science* (2003) 70: 1496–1507.
2. "Value, Advocacy, and Conservation Biology," *Environmental Values* (2003) 12: 55 – 69.
1. "Ecological Stability, Model Building, and Environmental Policy: A Reply to Some of the Pessimism," *Philosophy of Science* (2001) 68: 493 – 505.

## ■ Reviews

*Darwinian Populations and Natural Selection* by Peter Godfrey-Smith Oxford University Press, Oxford, 2009 in *Science*, October 16, 2009, pp. 368–369

*Darwinism & Philosophy* edited by Vittorio Hosle and Christian Illies, *Choice Reviews*

*Epistemology and the Psychology of Human Judgment* by Michael Bishop and J. D. Trout, Oxford University Press, 2004 *Choice Reviews*

*Human Nature and the Limits of Science* by John Dupre, *Philosophy of Science* 2003, 70(): 849–852

## Presentations

### 2013

"Expression, Expressing, and Expressive Of: Showing Emotion in People, Artifacts, and Nature," Hendrix College, Little Rock, AR, November 14, 2013.

"Robustness Redux," International Society for the History, Philosophy, and Social Studies of the Biological Sciences, 2013 Meeting, Montpellier, July 7-12, 2013

"Hubris and Naturalness," De-Extinction: Ethics, Law Politics Conference, Stanford University, May 31, 2013.

Author-Meets-Critics Session, Sahotra Sarkar *Environmental Philosophy*, Pacific American Philosophical Association Meeting, San Francisco, CA, March 27 - 31, 2013

"Assisted Migration and Invasive Species: Exploring an Ethical Dilemma," Assisted Migration: A Primer for Reforestation and Restoration Decision Makers, Forestry Center, Portland, OR, February 21, 2013

### 2012

"Searching for Patterns, Hunting for Causes: Searching for Patterns, Hunting for Causes: Robert MacArthur, the Mathematical Naturalist," Washington University, St. Louis, Jan. 25, 2012

"Building Trust, Removing Doubt? Robustness Analysis and Climate Modeling," The Boulder Conference on the History and Philosophy of Climate Science University of Colorado at Boulder, September 1.

### 2011

"Building Trust, Removing Doubt? Robustness Analysis and Climate Modeling" American Geophysical Union Fall Meeting, San Francisco, Dec. 6, 2011

"Gut Reactions" and Abstract Art by Jay Odenbaugh and Levi Tenen, Northwest Philosophy Conference, Lewis Clark College, Portland OR, November 4-5, 2011

"Gut Reactions" and Abstract Art by Jay Odenbaugh and Levi Tenen, Lewis Clark College, Portland OR, September 23 2011

### 2010

"True Lies: Realism, Robustness, and Models," Philosophy of Science Biennial Meeting, Hyatt Regency, Montreal, Quebec, Nov. 4 , 2010

"Assisted Migration and Invasive Species: Exploring an Ethical Dilemma" Assisted Migration of Plants, A Janet Meakin Poor Research Symposium, Chicago Botanical Garden, Friday, June 11, 9am-5:30pm.

### 2009

"Subsistence versus Sustainable Emissions? Equity and Climate Change," The Perfect Moral Storm: Ethical Challenges of Our Climate Crisis, Friday November 12, 2009 University of Oregon.

"Climate, Consensus, and Contrarians," The Environment, the 12th annual Inland Northwest Philosophy Conference, May 1–3, 2009

2008

"Sustainable versus Subsistence Emissions," Human Flourishing and Restoration in the Age of Global Warming, Clemson University, September 5–7, 2008.

"Invasive Species and Environmental Ethics," Department of Fisheries and Wildlife, Oregon State University seeing the Forest and the Trees department of Fisheries and Wildlife, Oregon State University

"The Edges and Boundaries of Ecosystems, niversity of Utah, Edges and Boundaries of Biological Objects Workshop

2007

"A General, Unifying Theory of Ecology," Workshop on Ecological Theory, University of Connecticut, August 17-18, 2007

"Robustness, Multiple Models, and Realism," International Society for the History, Philosophy, and Social Studies of the Biological Sciences, Exeter, University of Exeter, July 25-29, 2007

2006

"Conservation Biology as Crisis Science; or Should Biologists Be Advocates?" Twentieth Biennial Philosophy of Science Association Meeting, Austin, Texas, November 2-4, 2006

"Seeing the Forest and the Trees," Twentieth Biennial Philosophy of Science Association Meeting, Austin, Texas, November 2-4, 2006

"Seeing the Forest and the Trees," 2nd Queensland Biohumanities Conference (2QBC): The Philosophy of Ecology, University of Queensland, Brisbane, Australia, June 29-30 2006

"Extinction? A Philosopher Replies to the Skeptics," University of Washington, March 2, 2006

2005

The Diversity-Stability Debate: Models, Methods, and Morality," Workshop on Models and Simulations, Harvey Mudd College, October 17 0, 2005

"Advocacy, Value and Conservation Biology," Environmental Ethics, Science, and Policy, University of Utah , April 7–10, 2005

"Seeing the Forest and the Trees?" Environmental Ethics, Science, and Policy, University of Utah, April 7 0, 2005

"The Strategy of 'The Strategy of Model-Building in Population Biology' Models in Biology: The Strategy of Model Building 1966 005," April 2, 2005, University of Pennsylvania

"Salmon, Why Bother? Spawning an Environmental Ethic," Environmental Studies, Lewis and Clark College, Feb. 14, 2005

## 2004

"Preserving the Promised Land: The Environmental Legacy of Martin Luther King Jr.," U. S. Fish and Wildlife Service, January 20, 2004

"A Message in the Bottle: The Constraints of Experimentation on Scientific Reasoning," Nineteenth Biennial Philosophy of Science Association Meeting, Austin, Texas, November 18-20, 2004

"Mathematical Models in Ecology," ISHPSSB Future Directions in History, Philosophy, and Social Studies of Biology Workshop, University of San Francisco, Sept. 23-26, 2004

"Method in Philosophy of Biology: Paying Attention to Other Special Sciences," ISHPSSB Future Directions in History, Philosophy, and Social Studies of Biology Workshop, University of San Francisco, Sept. 23-26, 2004

"Theory as Tools: A Pragmatic Approach to Evaluating Models in Ecology," Science Seminar, Lewis and Clark College, April 27, 2004

## 2003

"True Lies: Robustness and Idealization in Ecological Explanations," Pacific Division of the American Philosophical Association, Pasadena, CA, March 2003

"Is It Reasonable to Believe Positive Relevance Theories of Evidence?" Oregon Academy of the Sciences, Portland State University, February 28, 2004

Commentary on Mark Sagoff's "The Plaza and Pendulum," International Society for Environmental Ethics session at the Eastern Division Meeting of the American Philosophical Association, Washington, D.C., December 2003

Commentary on Roberta Millstein's "Natural Selection, Genetically Modified Food, and the Environment," International Society for Environmental Ethics session at the Eastern Division Meeting of the American Philosophical Association, Washington, D.C., December 2003

Commentary on Tom Seppalainen's "The Explanatory Gap and the Questionable Roots of Necessitarian Epistemology," Northwest Philosophy Conference, Reed College, October 5, 2003

"True Lies: Robustness and Idealization in Ecological Explanations," Northwest Philosophy Conference, Reed College, October 4, 2003

"True Lies: Robustness and Idealization in Ecological Explanations," Department of Philosophy, Lewis and Clark College, September 12, 2003

"True Lies: Robustness and Idealization in Ecological Explanations," International Society for the History, Philosophy and Social Studies of the Biological Sciences, Vienna, Austria July 26, 2003

Commentary on Matt Haber's "On Probability and Systematics," University of California San Diego, Graduate Philosophy Conference, April 11-12, 2003

Invited paper for the Symposium Author Meets Critics, Sahotra Sarkar's Environmental Philosophy

and Biodiversity Conservation, The American Philosophical Association Pacific Division, Seventy-Seventh Annual Meeting Program, San Francisco, California, March 26–30, 2003

"Philosophy of Ecology," Department of Philosophy, University of San Diego, March 17, 2003

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Department of Philosophy, Oregon State University, February 6, 2003

"Value, Advocacy, and Conservation Biology," Department of Philosophy, Oregon State University, February 5, 2003

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Department of Philosophy, Lewis and Clark College, February 3, 2003

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Department of Philosophy, University of Alabama Birmingham, January 30, 2003

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Department of Philosophy, California State University Fresno, January 21, 2003

2002

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Scripps Institute of Oceanography, University of California San Diego, November 22, 2002

"Complex Systems, Trade-Offs and Mathematical Modeling: A Response to Sober and Orzack," Eighteenth Biennial Philosophy of Science Association Meeting, Milwaukee, Wisconsin November 2–5, 2002

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Western Canadian Philosophical Association, October 28, 2002, University of Calgary, Calgary, Alberta.

"Desiderata in Tension: On the Limits of Modeling in Ecology and Evolution," University of California, San Diego, Department of Philosophy, San Diego, California, June 7, 2002

"Species Extinctions, Ecological Models, and Scientific Uncertainty: A Troubling Triad," Canadian Philosophical Association, May 25, 2002, University of Toronto, Toronto, Ontario

"Complex Systems, Trade-offs and Mathematical Modeling: Richard Levins' 'Strategy of Model Building in Population Biology' Revisited," University of Western Ontario, Department of Philosophy, London, Ontario, February 4, 2002.

"Complex Systems, Trade-offs and Mathematical Modeling: Richard Levins' 'Strategy of Model Building in Population Biology' Revisited," Indiana University, History and Philosophy of Science Department, Bloomington, IN, January 23, 2002

"How Idealized and Inaccurate Models Contribute to Successful Science: A Pragmatic Approach to Evaluating Models in Theoretical Ecology," Indiana University, History and Philosophy of Science

Department, Bloomington, IN, January 22, 2002

2001

"The 'Marlboro Circle', Theoretical Population Biology, and Unification," International Society for the History, Philosophy, and Social Studies of the Biological Sciences, Quinnipiac University, Hamden CT, July 18–22, 2001

2000

"Ecological Stability, Model Building, and Environmental Policy: A Reply to Some of the Pessimism," Seventeenth Biennial Philosophy of Science Association Meeting, Vancouver, British Columbia, November 2–5, 2000

1999

"The Strategy of Model Building in Population and Community Ecology," International Society for the History, Philosophy, and Social Studies of the Biological Sciences, Oaxaca, Mexico July 7–11, 1999

1998

"Why Philosophers Should Focus on the Strategy of Model Building and Not Just Models," Western Canadian Philosophical Association Conference at the University of British Columbia, Vancouver, British Columbia November 1998

## Teaching Experience

### Lewis Clark College

PHIL 453 Natural Kinds  
PHIL 453 Realism/Anti-realism  
PHIL 453 Darwinian Revolutions  
PHIL 452 Global Climate Change  
PHIL 452 Consequentialism  
PHIL 452 Practical Ethics  
PHIL 452 Aesthetics and the Philosophy of Art  
PHIL 315 Philosophy of Science  
PHIL 310 Metaphysics  
PHIL 215 Philosophy and the Environment  
PHIL 203 Philosophy of Art & Beauty  
PHIL 201 Philosophy of Religion  
PHIL 103 Ethics  
PHIL 101 Logic

### University of California at San Diego

PHIL 12 Causal and Statistical Reasoning  
PHIL 33 Philosophy in the Age of Enlightenment (Empiricism)  
PHIL 148 Philosophy and the Environment  
PHIL 163 Bio-Medical Ethics  
PHIL 164 Technology and Human Values  
PHIL 147 Philosophy of Biology  
PHIL 285 Seminar on Special Topics: Philosophy of Biology



## Other Experience

Guest Lecturer, Ethics for Oceanography, Scripps Institute of Oceanography, University of California San Diego, August 2004 present

Guest Editor (with Matt Haber) The Edges and Boundaries of Biological Objects, *Journal of Biological Theory*, 4: 3, 2009

"Mathematical Models in Ecology," ISHPSSB Future Directions in History, Philosophy, and Social Studies of Biology Workshop, University of San Francisco, Sept. 23-26, 2004

"Method in Philosophy of Biology: Paying Attention to Other Special Sciences," ISHPSSB Future Directions in History, Philosophy, and Social Studies of Biology Workshop, University of San Francisco, Sept. 23-26, 2004

Causal Reasoning Course Workshop, August 6–10, 2001 Carnegie Mellon University, Department of Philosophy, hosted by Richard Scheines

## Community Service

Lewis & Clark College Strategic Planning Committee 2013 – present

Lewis and Clark Budget Advisory Committee 2011–

Lewis and Clark Strategic Planning Task Force 2011–

Lewis and Clark Sustainability Council Chair 2008–2010

Ethics Bowl Advisor for Lewis and Clark College 2005 - 2009

Organizer for Lewis and Clark College's Focus the Nation, 2008

Lewis and Clark Steering Committee for Environmental Studies–

Lewis and Clark College First-Year Advising Program, 2002–

Lewis and Clark College Sustainability Council, 2002– 2010

Lewis and Clark Petition and Awards Committee 2007– 2008

Ethics Bowl Advisor for Lewis and Clark College 2005–2009

Lewis and Clark College Faculty Secretary 2005–2006

Job Search Committee for Economics, October 2008– March 2009

Job Search Committee for Environmental Studies Program Director, October 2002– March 2003

"Philosophy and Population Biology," A presentation with Paulette Bierzychudek for Environmental Studies ENVS, 160: Introduction to Environmental Studies, Lewis and Clark College, February 18, 2004

"Parsimony and Phylogenetic Inference," A presentation for Phylogenetic Biology BIO 408 Lewis and Clark College, February 3, 2004"

s Reality Really Weird? Quantum Mechanics and Scientific Realism," A presentation for What is Quantum? A Scientific Philosophy Extravaganza! Lewis and Clark College, October 22, 2003

### ———— Scholarships and Awards Held

2007–08 National Science Foundation Workshop Grant, "Edges Boundaries of Biological Objects." \$25,000 (with Matt Haber, University of Utah)

### ———— Professional Membership

Professional Membership

American Philosophical Association

International Society for the Study of History, Philosophy, and Social Studies of the Biological Sciences

International Society for Environmental Ethics

Philosophy of Science Association

### ———— Professional Services

Member of the American Philosophical Association, Pacific Division, Steering Committee 2007 - 2010

Referee for: British Journal for the Philosophy of Science, Biology and Philosophy, Bioscience, Blackwell Publishers, Cambridge University Press, Environmental Values, Erkenntis, Oxford University Press, Philosophical Studies, Philosophy of Science, Quarterly Review of Biology, Science, Science and Engineering Ethics, Synthese, The Journal of Philosophy, Science, and Law, The National Science Foundation, Trends in Ecology and Evolution, University of Chicago Press

### ———— Dissertation Committee

John Matthewson, Australian National University, Ph.D 2012

Clement Loo, University of Cincinnati, Ph.D. 2010