

# JAMES JUSTUS

curriculum vitae

## Address

Philosophy Department  
Florida State University  
154 Dodd Hall  
Tallahassee, FL 32306-1500

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## EMPLOYMENT

Assistant Professor, Florida State University, Fall 2008 – present  
Postdoctoral Research Fellow, University of Sydney, Spring 2008, Fall 2009 – Summer 2010

## EDUCATION

Ph.D. Philosophy, University of Texas at Austin, 2007  
M.A. Philosophy, University of Texas at Austin, 2002  
B.S. Mathematics, B.A. Philosophy, University of Illinois at Urbana, 1999

## AREAS OF SPECIALIZATION

Philosophy of Science, Philosophy of Biology, Environmental Philosophy

## AREAS OF COMPETENCE

Ethics (esp. environmental ethics), Logic, Formal Epistemology, History of Analytic  
Philosophy (esp. logical empiricism and Quine)

## PUBLICATIONS

### Articles:

“Evidentiary Inference in Evolutionary Biology.” [review essay of Elliott Sober, *Evidence and Evolution: The Logic Behind the Science*] *Biology and Philosophy* (forthcoming).

“A Case Study in Concept Determination: Ecological Diversity.” In Brown, B.; K. de Laplante; and K. Peacock (eds.), *Handbook of the Philosophy of Ecology*. Elsevier Press (forthcoming).

Colyvan, M.; **Justus, J.**; Regan, H. “The Conservation Game.” *Biological Conservation* (forthcoming).

“Darwin’s Evolutionary Ecology.” In Ruse, M. (ed.), *The Cambridge Encyclopedia of Darwin and Evolutionary Thought*. New York: Cambridge University Press (forthcoming).

Colyvan, M.; **Justus, J.**; Regan, H. “The Natural Environment is Valuable but Not Infinitely Valuable.” *Conservation Letters* **3** (2010): 224–228.

**Justus, J.**; Colyvan, M.; Regan, H.; Maguire, L. “Buying into Conservation: Intrinsic versus Instrumental Value.” *Trends in Ecology and Evolution* **24** (2009): 187–191.

\* **Justus, J.**; Colyvan, M.; Regan, H.; Maguire, L. “Response to Sagoff.” *Trends in Ecology and Evolution* **24** (2009): 644.

[see Sagoff, M. “Intrinsic Value: A Response to Justus et al.” *Trends in Ecology and Evolution* **24** (2009): 643.]

“Ecological and Lyapunov Stability.” *Philosophy of Science* **75** (2008): 421–436.

Maguire, L. and **Justus, J.** “Why Intrinsic Value is a Poor Basis for Conservation Decisions.” *Bioscience* **58** (2008): 910–911.

“Complexity, Diversity, Stability.” In Sarkar, S. and A. Plutynski (eds.), *A Companion to the Philosophy of Biology*. Malden, MA: Blackwell, 321–350 (2008).

“Exotic Species.” In Callicott, J. B. and R. Frodeman (eds.), *Encyclopedia of Environmental Ethics and Philosophy*. Farmington, MI: Thomas Gale, 412–414 (2008).

**Justus, J.**; Fuller, T.; and Sarkar, S. “Influence of Representation Targets on the Total Area of Conservation Area Networks.” *Conservation Biology* **22** (2008): 673–682.

“Loop Analysis and Qualitative Modeling: Limitations and Merits.” *Biology and Philosophy* **21** (2006): 647–666.

“Cognitive Significance.” In Sarkar, S. and J. Pfeifer (eds.), *The Philosophy of Science: An Encyclopedia*. New York, NY: Routledge Press, 131–140 (2006).

Garson, J. and **Justus, J.** “Conservation Biology.” In Sarkar, S. and J. Pfeifer (eds.), *Philosophy of Science: An Encyclopedia*. New York, NY: Routledge Press, 163–168 (2006).

“Qualitative Scientific Modeling and Loop Analysis.” *Philosophy of Science* **72** (2005): 1272–1286.

Sarkar, S.; **Justus, J.**; Fuller, T.; Kelley, C.; Garson, J.; and Mayfield, M. “Effectiveness of Estimator Surrogates for the Selection of Conservation Area Networks.” *Conservation Biology* **19** (2005): 815–825.

**Justus, J.** and Sarkar, S. “The Principle of Complementarity in the Design of Reserve Networks to Conserve Biodiversity: A Preliminary History.” *Journal of Biosciences* **27** (2002): 421–435.

#### **Book Reviews:**

“The Diversities of Biodiversity [review of James Maclaurin and Kim Sterelny, *What is Biodiversity?*]” *Metascience* **19** (2010): 247–250.

“[Review of Michael Friedman and Richard Creath (eds.), *Cambridge Companion to Carnap*.]” *Bulletin of Symbolic Logic* **15** (2009): 428–431.

“[Review of Nancy Nersessian, *Creating Scientific Concepts*.]” *Quarterly Review of Biology* **84** (2009): 277–278.

“[Review of Bryan Norton, *Searching for Sustainability: Interdisciplinary Essays in the Philosophy of Conservation Biology*.]” *Philosophy of Science* **71** (2004): 232–235.

“Taking Stock of Conservation Biology: Old Problems and New Directions.” [review of: Michael Soulé and Gordan Orians, *Conservation Biology Research Priorities for the Next Decade*, and Peter Feinsinger, *Designing Field Studies for Biodiversity Conservation*.] *Bioscience* **52** (2002): 854–856.

#### **Edited and Short Works:**

**Justus, J.** and Maguire, L. Response letter to the editor. *Bioscience* **59** (2009): 101.

*Journal of Biosciences*: (2002), “Special Issue on Biodiversity Conservation.” Vol. **27** (co-edited with Sahotra Sarkar).

#### **PRESENTATIONS**

“Biological Information as Game-Theoretic Information.”

- *IHPST Colloquium Series*, University of Toronto, February 2011
- *Biology Department Seminar Series*, Florida State University, Tallahassee, January 2011
- *Philosophy of Biology at Madison Workshop (POBAM)*, Madison, May 2010
- *Tempo and Mode Seminar*, Centre for Macroevolution and Macroecology, Australian National University, Canberra, May 2010

- *Canadian Society for the History and Philosophy of Science*, Montréal, May 2010
- “Inferential Robustness in Environmental Modeling and Decision-Making.”
- *Philosophy of Science Association Biennial Meeting*, Montréal, Canada, November 2010
- “The Search for a Formal Criterion of Empirical Significance: A Reconsideration.”
- *Philosophy of Science Association Biennial Meeting*, Montréal, Canada, November 2010
  - Australian National University, Canberra, May 2010
  - University of Sydney, December 2009
- “The Algorithmic Turn in Conservation Biology: A Case Study in Scientific Progress.”
- *Philosophy of Biology at Dolphin Beach*, Moruya, Australia, August 2010
  - *Australasian Association of Philosophy*, Sydney, July 2010
  - *Spatial Ecology Lab Seminar*, School of Integrative Biology, University of Queensland, Brisbane, July 2010
- “Explicative Definition: Defending Carnap on Concept Determination.”
- *Sydney-Tilburg Conference on The Future of Philosophy of Science*, Tilburg, April 2010
  - *HPS Seminar*, University of Sydney, September 2009
- “The Status of the Fact-Value Distinction in the Teleological Sciences.”
- University of Sydney, March 2010
  - *Australasian Association of Philosophy*, Melbourne, July 2009
  - *International Society for the History, Philosophy and Social Studies of Biology*, Brisbane, July 2009
  - *Sydney-Tilburg Conference on Evidence, Science and Public Policy*, Sydney, March 2009
- “A Case Study in Concept Determination: Ecological Diversity.”
- *Sydney-ANU Philosophy of Biology Workshop*, Sydney, August 2009
  - *Biology Department Seminar Series*, Florida State University, Tallahassee, February 2009
- “Buying into Conservation: Intrinsic versus Instrumental Value.”
- *Faculty Luncheon Series*, Florida State University, Tallahassee, November 2008
  - *HPS Seminar*, Florida State University, Tallahassee, October 2008
- “Emergence of the Stability-Diversity-Complexity Debate of Community Ecology: 1955-1975.”
- *Ecological Society of America Annual Meeting*, Milwaukee, August 2008  
(for a description of this symposium see: [Chew, M. K. \(2009\), “Symposium 19 Good Ideas at the Time: Historians Look at Ecology.” \*Bulletin of the Ecological Society of America\* 90: 142–152](#))
- “A Theory of Stability.”
- *Australasian Association of Philosophy*, Melbourne, July 2008
  - University of Sydney, May 2008
  - Colorado State University, Fort Collins, February 2008
  - University of Michigan at Flint, February 2008
  - Florida State University, Tallahassee, January 2008
  - University of California at Irvine, January 2008
- “Commentary on ‘The Prior Probabilities of Phylogenetic Trees’ by Joel Velasco.”
- *Formal Epistemology Workshop*, Pittsburgh, June 2007 [[pdf](#)]
- “Defining Ecological Stability.”
- McGill University, Montreal, February 2007
  - Michigan State University, East Lansing, February 2007
  - University of California at Santa Cruz, January 2007

- University of Wisconsin at Madison, January 2007
- “Ecological and Lyapunov Stability.”
- *Philosophy of Science Association Biennial Meeting*, Vancouver, Canada, November 2006
- “How Should Ecological Stability be Defined?”
- *International Society for the History, Philosophy and Social Studies of Biology*, Guelph, Canada, July 2005
- “Commentary on ‘New Life for Carnap’s *Aufbau*?’ by Hannes Leitgeb.”
- *Formal Epistemology Workshop*, Austin, May 2005 [[pdf](#)]
- “Qualitative Scientific Modeling and Loop Analysis.”
- *Philosophy of Science Association Biennial Meeting*, Austin, November 2004
  - *Southwest Colloquium in History and Philosophy of the Life Sciences*, Austin, March 2004
- “Effectiveness of Estimator Surrogates for the Selection of Conservation Area Networks.”
- *Society for Conservation Biology 18<sup>th</sup> Annual Meeting*, New York, August 2004
- “Commentary on ‘The Probability of Evidence’ by Sherrilyn Roush.”
- *Formal Epistemology Workshop*, Berkeley, CA, May 2004 [[pdf](#)]
- “Scientific Explication and Ecological Stability.”
- *12<sup>th</sup> International Congress of Logic, Methodology, and Philosophy of Science*, Oviedo, Spain, August 2003
- “A Case Study in Scientific Maturation: Technological Innovation and Early Conservation Biology.”
- *Southwest Colloquium in History and Philosophy of the Life Sciences*, Phoenix, April 2003
- “The Importance of Technological Innovation in Conservation Biology: the Emergence of Systematic Biodiversity Reserve Network Design.”
- *History of Science Society Annual Meeting*, Milwaukee, November 2002
- “Was the Search for a Criterion of Empirical Significance Utterly Hopeless After All?”
- *Fourth Central Texas Philosophy of Science Meeting*, College Station, September 2002
- “The Emergence and Fate of Cognitive Significance.”
- *Fourth Biennial Congress of the History of the Philosophy of Science Working Group (HOPOS)*, Montréal, Québec, June 2002
- “The Principle of Complementarity in the Design of Reserve Networks to Conserve Biodiversity: A Preliminary History.”
- *International Society for the History, Philosophy and Social Studies of Biology*, Quinnipiac, CT, July 2001
  - *History and Philosophy of Science Lunchtime Seminar Series*, Austin, April 2001

#### **FELLOWSHIPS, GRANTS, HONORS**

- Postdoctoral Research Fellowship, University of Sydney, Spring 2008 and 2009–2010
- Provost Faculty Travel Grant, 2008, 2010
- First Year Assistant Professor Research Grant, Florida State University, 2009
- Bruton Fellowship, University of Texas, 2005–2006
- University Continuing Fellowship, University of Texas, 2004–2005
- Josephine De Kármán Fellowship, 2004–2005
- Summer Language Fellowship, German, University of Texas, 2004
- Distinguished Teaching Award, 2003–2004

University Continuing Tuition Fellowship, University of Texas, 2003–2004  
Donald Doersherer Award, University of Illinois, 1999 (given to top graduate in philosophy)  
*Phi Beta Kappa*, University of Illinois, 1999

### **PROFESSIONAL EXPERIENCE AND SERVICE**

Symposium co-organizer (with Kevin Elliott): “Values in Environmental Science and Policy.”  
*International Society for the History, Philosophy and Social Studies of Biology*, Brisbane, Australia, July 2009

Conference co-organizer: “Evidence, Science and Public Policy.”  
*Sydney-Tilburg Conference on Evidence, Science and Public Policy*, Sydney, Australia, March 2009

Referee: *Philosophy & Theory in Biology* 2010  
*Ecological Economics* 2010  
*Biological Conservation* 2010  
*Broadview Press* 2010  
*Conservation Biology* 2009  
*Wiley-Blackwell Press* 2009  
*Oxford University Press* 2009  
*National Science Foundation* 2009  
*British Journal for the Philosophy of Science* 2008  
*Philosophy of Science* 2007  
*Biology and Philosophy* 2006, 2007, 2008  
*Ecological Modeling* 2008

Invited Contributor: “Making Decisions on Complex Environmental Problems.”  
*National Center for Ecological Analysis and Synthesis Workshop*, Santa Barbara, December 2007, June 2008, November 2008

Member: Biodiversity and Biocultural Conservation Laboratory, 2000-2008  
Editorial Assistant: *The Philosophy of Science: An Encyclopedia*, Routledge, 2001–2006

### **TEACHING EXPERIENCE**

Environmental Ethics [Undergraduate: S09; F10]  
Introduction to the Philosophy of Science [Undergraduate: F08, F10; S09, S10]  
Philosophy of Biology [Graduate: F08]  
Logical Empiricism [Graduate: S10]