

# JAMES JUSTUS

curriculum vitae

## Address

Philosophy Department  
Florida State University  
154 Dodd Hall; 641 University Way  
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:

“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).

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

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

Maguire, L.; **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:**

“[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**

“The Status of the Fact-Value Distinction in the Teleological Sciences.”

- *Sydney-Tilburg Conference on Evidence, Science and Public Policy*. Sydney, March 2009
- *International Society for the History, Philosophy and Social Studies of Biology*, Brisbane, July 2009

“A Case Study in Concept Determination: Ecological Diversity.”

- *Biology Department Seminar Series*, Florida State University, Tallahassee, February 2009

“Buying into Conservation: Intrinsic versus Instrumental Value.”

- *HPS Lunchtime Seminar Series*, Florida State University, Tallahassee, October 2008
- *Faculty Luncheon Series*, Florida State University, Tallahassee, November 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.”	<i>Florida State University</i>	January 2008
	<i>University of California at Irvine</i>	January 2008
	<i>Colorado State University</i>	February 2008
	<i>University of Michigan at Flint</i>	February 2008
	<i>University of Sydney</i>	May 2008
	<i>Australasian Association of Philosophy</i>	July 2008

“Commentary on ‘The Prior Probabilities of Phylogenetic Trees’ by Joel Velasco.”

- *Formal Epistemology Workshop*, Pittsburgh, June 2007 [[pdf](#)]

“Defining Ecological Stability.”	<i>University of Wisconsin at Madison</i>	January 2007
	<i>University of California at Santa Cruz</i>	January 2007
	<i>McGill University</i>	February 2007
	<i>Michigan State University</i>	February 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**

First Year Assistant Professor Research Grant, 2009

Provost’s Faculty Travel Grant, 2008

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

Liberal Arts Graduate Research Fellowship, University of Texas, 2002  
Donald Doersherer Award, University of Illinois, 1999 (given to top graduate in philosophy)

### **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: *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: Spring 2009]

Introduction to the Philosophy of Science [Undergraduate: Fall 2008, Spring 2009]

Philosophy of Biology [Graduate: Fall 2008]