

Curriculum Vitae James Justus

Office Address

1 University Station
Department of Philosophy
University of Texas
Austin, TX 78713

EDUCATION

Ph.D.	Philosophy	University of Texas (Austin)	2007 (expected)
M.A.	Philosophy	University of Texas (Austin)	2002
B.S.	Mathematics	University of Illinois (Urbana)	1999
B.A.	Philosophy	University of Illinois (Urbana)	1999

AREAS OF SPECIALIZATION

Philosophy of Science, Philosophy of Biology, Environmental Philosophy

AREAS OF COMPETENCE

Ethics, Formal Epistemology, Logic and Philosophy of Mathematics, History of Analytic Philosophy

DISSERTATION

Title: "The Stability-Complexity-Diversity Debate of Theoretical Community Ecology: A Philosophical Analysis."

Committee: Sahotra Sarkar [Director] (University of Texas); Mark Colyvan (University of Sydney); R. J. Hankinson (University of Texas); Cory Juhl (University of Texas); Samir Okasha (University of Bristol); Eric Pianka (Biology–University of Texas); Mark Sainsbury (University of Texas)

PUBLICATIONS

Articles:

- Justus, J.; Fuller, T.; and Sarkar, S. (in review), "Influence of Representation Targets on the Total Area of Conservation Area Networks." *Conservation Biology*.
- Justus, J. (in press), "Ecological and Lyapunov Stability." *Philosophy of Science*.
- Justus, J. (in press), "Complexity, Diversity, Stability." In Sarkar, S. and A. Plutynski (eds.), *A Companion to Philosophy of Biology*. Malden, MA: Blackwell.
- Justus, J. (2006), "Loop Analysis and Qualitative Modeling: Limitations and Merits." *Biology and Philosophy* **21**: 647-666.
- Justus, J. (2006), "Cognitive Significance." In Sarkar, S. and J. Pfeifer (eds.), *The Philosophy of Science: An Encyclopedia*. New York, NY: Routledge Press, 131-140.
- Garson, J. and Justus, J. (2006), "Conservation Biology." In Sarkar, S. and J. Pfeifer (eds.), *The Philosophy of Science: An Encyclopedia*. New York, NY: Routledge Press, 163-168.
- Justus, J. (2005), "Qualitative Scientific Modeling and Loop Analysis." *Philosophy of Science* **72**: 1272-1286.

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

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

Edited Works:

Journal of Biosciences: (2002), "Special Issue on Biodiversity Conservation." Vol. **27** (coedited with Sahotra Sarkar).

Book Reviews:

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

Justus, J. (2002), "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**: 854–856.

Works in Preparation:

"The Search for a Formal Criterion of Empirical Significance: A Reconsideration."

"A Case Study in Scientific Maturation: Technological Innovation and Conservation Biology."

MASTER'S THESIS

"The Logical Empiricists' Search for a Formal Criterion of Empirical Significance: Utterly Hopeless After All?"

PRESENTATIONS

"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, TX, May 2005
<http://ist-socrates.berkeley.edu/~fitelson/few/few_05/justus.pdf>.

"Qualitative Scientific Modeling and Loop Analysis." *Philosophy of Science Association Biennial Meeting*, Austin, TX, November 2004.

"Effectiveness of Estimator Surrogates for the Selection of Conservation Area Networks." *Society for Conservation Biology 18th Annual Meeting*, New York, NY, August 2004.

"Commentary on 'The Probability of Evidence' by Sherrilyn Roush." *Formal Epistemology Workshop*, Berkeley, CA, May 2004
<http://ist-socrates.berkeley.edu/~fitelson/few/few_04/justus.pdf>.

"Qualitative Scientific Modeling and Loop Analysis." *Southwest Colloquium in the History and Philosophy of the Life Sciences*, Austin, TX, March 2004.

- “Scientific Explication and Ecological Stability.” *12th 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 the History and Philosophy of the Life Sciences*, Phoenix, AZ, 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, WI, November 2002.
- “Was the Search for a Criterion of Empirical Significance Utterly Hopeless After All?” *Fourth Central Texas Philosophy of Science Meeting*, College Station, TX, 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.
- “The Principle of Complementarity in the Design of Reserve Networks to Conserve Biodiversity: A Preliminary History.” *History and Philosophy of Science Lunchtime Seminar Series*, Austin, TX, April 2001.

FELLOWSHIPS, GRANTS, HONORS

- Cogburn Philosophical Prize, Second Place, 2007.
- National Science Foundation Travel Grant, 2002, 2006.
- 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.
- Dibner Institute Summer Biological Seminar Travel Grant, 2003.
- Liberal Arts Graduate Research Fellowship, University of Texas, 2002.
- Graduate Professional Development Award, University of Texas, 2000, 2001, 2002, 2004, 2006.
- Donald Doersherer Award, University of Illinois, 1999 (given to the top graduating senior in philosophy).
- Graduation with Highest Distinction, University of Illinois Philosophy Dept., 1999.
- Graduation with High Distinction, University of Illinois Mathematics Dept., 1999.

PROFESSIONAL SERVICE

- Referee: *Philosophy of Science* (2007), *Biology and Philosophy* (2006).
- Editorial Assistant: *The Philosophy of Science: An Encyclopedia*, Routledge Press (2001–2006).
- Panel Moderator: “Conservation Area Planning, Design, and Management.” *Society for Conservation Biology 18th Annual Meeting*, New York, NY 2004.

READING LANGUAGES

- German, Spanish.

TEACHING EXPERIENCE AS A TEACHING ASSISTANT

Contemporary Moral Problems [Fall 1999, Fall 2000, Summer 2002].
Political Philosophy [Spring 2001].
Science and the Modern World [Fall 2001].
Environmental Ethics [Spring 2002, Spring 2007].
Problems of Knowledge and Evaluation (year-long introduction to philosophy for honors students) [2002-2003, 2003-2004].
Biostatistics [Spring 2006; Biology Department].
Philosophy of Law [Fall 2006].

GRADUATE COURSWORK

Philosophy of Science	Fred Kronz	Fall 1999
The Analytic Tradition	Robert Causey	Fall 1999
Studies in Political Theory and Philosophy	James Fishkin	Fall 1999
Free Will and Value Theory [Conf. Course]	Robert Kane	Spring 2000
Political Thought	David Braybrooke	Spring 2000
Biology of the Mind	Sahotra Sarkar	Spring 2000
Carnap and Logical Empiricism	Sahotra Sarkar	Fall 2000
Philosophical Logic	Nicholas Asher	Fall 2000
Virtue Ethics	Tara Smith	Fall 2000
Emergence, Supervenience, and Reduction	Fred Kronz	Spring 2001
Hobbes and Locke	Alasdair Martinich	Spring 2001
Ecology [Biology]	Phil Shappert	Spring 2001
Philosophy of Biology	Sahotra Sarkar	Fall 2001
Nietzsche	Kathleen Higgins	Fall 2001
Ethical Theory	Robert Kane	Fall 2001
Sophists	Michael Gaugrin	Spring 2002
	Paul Woodruff	
Ecology Laboratory [Biology]	Larry Gilbert	Spring 2002
Conservation Biology [Biology]	Sahotra Sarkar	Fall 2002
Evolutionary Ecology [Biology]	Eric Pianka	Fall 2002
Intermediate Symbolic Logic	Daniel Bonevac	Spring 2002
Galileo	Robert Hankinson	Spring 2002
Kant's Philosophy of Science [Audit]	Sahotra Sarkar	Fall 2003
Ecology and Conservation [Biology]	Camille Parmesan	Spring 2004
Philosophy of Biology [Audit]	Sahotra Sarkar	Fall 2005
Logic and Philosophy [Audit]	Josh Dever	Spring 2005
Advanced Logic [Audit]	Josh Dever	Fall 2005
Intermediate Biostatistics [Biology]	Sahotra Sarkar	Spring 2005

REFERENCES

Sahotra Sarkar	University of Texas
Mark Colyvan	University of Sydney
R. J. Hankinson	University of Texas
Cory Juhl	University of Texas
Robert Kane	University of Texas
Samir Okasha	University of Bristol
Mark Sainsbury	University of Texas
Eric Pianka	University of Texas (Biology)