

## Curriculum Vitae

### TIMOTHY SHANAHAN

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#### EDUCATION

Ph.D. Philosophy, University of Notre Dame, August 1988  
M.A. History and Philosophy of Science, University of Notre Dame, January 1986  
B.S. Biology, State University of New York at Cortland, May 1983  
B.A. Philosophy, State University of New York at Cortland, May 1983

#### ACADEMIC POSITIONS

Bellarmino College of Liberal Arts Daum Professorship, 2009-2010  
Professor of Philosophy, Loyola Marymount University, 2000-present  
Robert H. Taylor, S.J. Chair in Philosophy, 2002-2004  
Associate Professor of Philosophy, Loyola Marymount University, 1995-2000  
Postdoctoral Fellow, Science Studies Program, University of California, San Diego, 1994-1995  
Assistant Professor of Philosophy, Loyola Marymount University, 1988-1995  
Senior Teaching Fellow, University of Notre Dame, 1987-1988  
Instructor in Philosophy, University of Notre Dame, 1984-1987

#### COURSES TAUGHT

Philosophy of Biology	Philosophy of Mind	Theory of Knowledge
Philosophy of Science	Modern Philosophy I	Darwinism & Christian Belief
Philosophy of Human Nature	Cognitive Relativism	On the Nature of Things
Irish Moral/Political Philosophy	Philosophy and Film	Immortality & the Meaning of Life
The Ethical Brain/the Moral Life	Natural Philosophy	Critical Thinking

#### DEPARTMENTAL SERVICE

Chair, Core Curriculum Committee of Philosophy (CCCP), Spring-Fall 2008  
TOP Director and Teaching Fellows Supervisor, 2008-present  
Acting Director, M.A. Program in Philosophy, Fall 2006, 2009  
Chair of the Department of Philosophy, 2002-2006  
Chair, Assessment Committee, 2002-2006  
Faculty Mentor for Dr. Jason Baehr, Fall 2002-2008  
MA Program Graduate Committee, Spring 2001-present

Colloquium Coordinator, Fall 1995-Spring 2001  
Search Committee, 1991-1992; Spring 1994; Fall 1994; Spring 1995; 2002-2003 (Chair);  
2004-2005 (Chair); 2006-2007 (Chair)  
Majors Advisor, 1993-1995  
Faculty Advisor, Philosophy Society & Phi Sigma Tau, 1988-1991

## **COLLEGE AND UNIVERSITY SERVICE**

Core Implementation Task Force Faculty Working Group, Fall 2011  
BCLA Graduate Advisory Committee, Spring 2011- present  
Faculty Senate, 2010-2013  
BCLA Planning Council, 2009-2012  
Rank & Tenure Independent Review Committee, 2009-2010  
Acting Chair, Department of Classics & Archaeology, Fall 2008  
Review Committee for Nick Kochler, Bioethics Institute, 2008-2010  
University Honors Program Director Search Committee, 2007-2008  
Honors Advisory Council, Fall 2006-2009  
Graduate Council, Fall 2006, 2009  
BCLA Graduate Directors, Fall 2006, 2009  
NEH Proposal Review Committee, Fall 2006, 2010  
Council of Chairs, 2002-2006  
Organizer, "Understanding Terrorism" Conference, 2002-2003  
Acting Director, Summer in Ireland Program, 2002-2003  
University College Cork, Devere Scholarship Committee, Spring 2001, 2002, 2003  
Fulbright Campus Interview Committee, 1998, 1999  
Bioethics Institute Director Search Committee, 1997-1999  
University Research Committee, 1996-1999  
Advisor for Undeclared Liberal Arts Students, 1995-2008  
Instructional Standards Task Force, 1993-1994  
Co-Chair, Library Case Advisory Group, Spring 1993  
Faculty Senator (At-Large), 1992-1993  
Chair, Faculty Senate Election Committee, 1992-1993  
Rhodes Scholarship Committee, Fall 1992  
Library Committee, 1991-1994  
Assistant Academic Grants Officer Search Committee, Spring 1992  
Faculty Moderator, LMU Sierra Club, 1990-1991  
Organizing Committee, LMU Teach-In on Ecology, 1990-1991  
Casassa Conference Organizing Committee, 1990-1991  
Co-Coordinator, Forum on "Crisis in the Middle East," Fall 1990

## **EDITORIAL, CONSULTING, REFEREEING WORK**

*Critical Studies on Terrorism* (2010)  
*Studies in History and Philosophy of Biological and Biomedical Sciences* (2010)  
Routledge Publishing (2007, 2008)  
Longman Publishing (2003)

National Science Foundation (2001)  
*Trends in Ecology and Evolution* (1999)  
*Philosophy of Science* (1997, 2011, 2012)  
Blackwell Publishers (1997, 2007)  
Prentice-Hall Publishers (1996, 1997, 2008)  
*Journal of the History of Ideas* (1993)  
*Journal of Philosophical Research* (1993)  
*Dialogue: Canadian Philosophical Review* (1992, 1994)  
Oxford University Press (1991, 1992, 2002)  
SUNY Press (1991)  
Wadsworth Publishing Co. (1989, 2000)  
*Journal of the History of Philosophy* (1988)

## **MEMBERSHIPS**

Philosophy of Science Association (PSA)  
International Society for History, Philosophy, and Social Studies of Biology (ISHPSSB)

## **PUBLICATIONS**

### **Books**

*Reason and Insight: Western and Eastern Perspectives on the Pursuit of Moral Wisdom*,  
Second Edition (Belmont, CA: Wadsworth Publishing Company, 2003), 492 pp.

*The Evolution of Darwinism: Selection, Adaptation, and Progress in Evolutionary Biology*  
(New York: Cambridge University Press, 2004).

*Philosophy 9/11: Thinking about the War on Terrorism* [edited volume] (Chicago: Open Court  
Publishing, 2005).

*The Provisional Irish Republican Army and the Morality of Terrorism* (Edinburgh: Edinburgh  
University Press, 2009).

### **Journal Articles and Book Chapters**

"The First Moment of Scientific Inquiry: C.S. Peirce on the Logic of Abduction," *Transactions  
of the C.S. Peirce Society*, Fall 1986, Vol. XXII, No. 4, pp. 449-466.

"God and Nature in the Thought of Robert Boyle," *Journal of the History of Philosophy*, Oct.  
1988, Vol. XXVI, No. 4, pp. 547-569. Reprinted in Vere Chappell (ed.), *Seventeenth-Century  
Natural Scientists*, volume 7 of *Essays on Early Modern Philosophers* (Garland Publishing,  
1992), pp. 123-145.

"Kant, *Naturphilosophie*, and Oersted's Discovery of Electromagnetism: A Reassessment,"  
*Studies in History and Philosophy of Science*, Sept. 1989, Vol. 20, No. 3, pp. 287-305.

"Missing the Trees for the Forest -- Literally! Beatty on Chance and Natural Selection," *Philosophy of Science*, Sept. 1989, Vol. 56 (no. 3), pp. 484-489.

"Group Selection and the Evolution of Myxomatosis," *Evolutionary Theory*, June 1990, Vol. 9, pp. 239-254.

"Evolution, Phenotypic Selection, and the Units of Selection," *Philosophy of Science*, June 1990, Vol. 57 (no. 2), pp. 172-187.

"Chance as an Explanatory Factor in Evolutionary Biology," *History and Philosophy of the Life Sciences*, Fall 1991, Vol. 13, pp. 249-269.

"Selection, Drift, and the Aims of Evolutionary Theory," in Paul Griffiths (ed.), *Trees of Life: Essays in Philosophy of Biology* (Dordrecht: Kluwer, 1992), pp. 133-161.

"Teleological Reasoning in Robert Boyle's *Disquisition about Final Causes*," in Michael Hunter (ed.), *Robert Boyle Reconsidered* (Cambridge: Cambridge University Press, 1994), pp. 177-192.

"Realism and Antirealism in Evolutionary Biology," in R.S. Cohen, R. Hilpinen and Q. Renzong (eds.), *Realism and Anti-Realism in the Philosophy of Science* (Dordrecht: Kluwer Academic Publishers, 1996), pp. 447-464.

"Pluralism, Antirealism, and the Units of Selection," *Acta Biotheoretica* Volume 45, Number 2, June 1997, pp. 117-126.

"Kitcher's Compromise: A Critical Evaluation of the Compromise Model of Scientific Closure, and its Implications for the Relationship Between History and Philosophy of Science," *Studies in History and Philosophy of Science*, Volume 28, number 2, June 1997, pp. 319-338.

"Darwinian Naturalism, Theism, and Biological Design," *Perspectives on Science and Christian Faith* Volume 49, Number 3, September 1997, pp. 170-178.

"The Troubled Past and Uncertain Future of Group Selectionism," *Endeavour* Volume 22, Number 2, 1998, pp. 57-60.

"Evolutionary Progress from Darwin to Dawkins," *Endeavour* Volume 23, Number 4, December 1999, pp. 171-174.

"Evolutionary Progress?" *BioScience* Volume 50, Number 3, May 2000, pp. 451-459.

"Opportunism and Progress in Evolution," *BioScience* Volume 51, Number 1, January 2001, p. 3.

"Species," in *The Scientific Revolution: An Encyclopedia*, edited by Wilbur Applebaum

(New York & London: Garland Publishing, 2000), pp. 611-612.

"Methodological and Contextual Factors in the Dawkins/Gould Dispute Over Evolutionary Progress," *Studies in History and Philosophy of Biological and Biomedical Sciences* Volume 32, Number 1, Spring 2001, pp. 127-151.

"Progress -- A Philosophical Analysis," *Encyclopedia of the Life Sciences* (London: Macmillan Reference Ltd, 2001), Volume 15, pp. 228-230.

"The Evolutionary Indeterminism Thesis," *BioScience* Volume 53, Number 2, February 2003, pp. 164-170.

"Can There be a Nonconsequentialist Rights-Based Moral Justification of Terrorism?" in Patricia Hanna, Adrienne McEvoy, and Penelope Voutsina (eds.), *An Anthology of Philosophical Studies* (Athens: ATINER, 2006), pp. 409-420.

"Why Don't Zebras Have Machine Guns? Adaptation, Selection, and Constraints in Evolutionary Theory," *Studies in History and Philosophy of Biological and Biomedical Sciences*, Volume 39, Number 1, March 2008, pp. 135-146.

"The Morality of Palestinian Terrorism," in Stephen Law (ed.), *Israel, Palestine, and Terror* (London and New York: Continuum, 2008), pp. 34-46.

"The Units of Selection," in Olga Pombo *et al.* (eds.), *Evolution: Controversies and Debates* (Lisbon: Esfera do Caos Editores, 2009), pp. 153-173.

"Betraying a Certain Corruption of Mind: How (and How Not) to Define 'Terrorism,'" *Critical Studies on Terrorism*, Volume 3, Issue 2, August 2010, pp. 173-190.

"Phylogenetic Inertia and Darwin's Higher Law," *Studies in History and Philosophy of Biological and Biomedical Sciences*, Volume 42, March 2011, pp. 60-68.

"Evolutionary Progress: Conceptual Issues," *Encyclopedia of the Life Sciences* (London: Macmillan Reference Ltd [forthcoming]).

## **Book Reviews**

"A Mystery Still" [review of *Mystery of Mysteries: Is Evolution a Social Construction?* by Michael Ruse], *Trends in Ecology and Evolution* Vol. 14, No. 10, October 1999, p. 411.

"Design by Nature" [Review of *Organisms and Artifacts: Design in Nature and Elsewhere*, by Tim Lewens], *BioScience*, Volume 54, Number 11, November 2004, pp. 1044-1046.

"Not a Four-Letter Word" [Review of *Darwinian Reductionism: Or, How to Stop Worrying and Love Molecular Biology*, by Alexander Rosenberg], *BioScience* Volume 57, Number 7,

July/August 2007, pp. 629-630.

"Shanahan's Law" [Review of *Back to Darwin: A Richer Account of Evolution*, by John R. Cobb, Jr. (ed.)], *Reports of the National Center for Science Education* Volume 29, Number 2, Mar-Apr 2009, pp. 45-46.]

"Philosophy of Biology Evolving" [Review of *Contemporary Debates in Philosophy of Biology*, by Francisco J. Ayala and Robert Arp (eds.) (Wiley-Blackwell, Malden, MA, 2010)], *Science & Education*, Volume 19, March 2010, pp. 22-26.

"A Clever Ruse" [Review of *Defining Darwin: Essays on the History and Philosophy of Evolutionary Biology*, by Michael Ruse (Prometheus Books: Amherst, NY, 2009)], *BioScience* Volume 60, Number 7, July/August 2010, pp. 553-555.

"Diversity and Complexity are Easy" [Review of *Biology's First Law: The Tendency for Diversity and Complexity to Increase in Evolutionary Systems*, by Daniel W. McShea and Robert N. Brandon (Chicago: University of Chicago Press, 2010)], *Metascience* Volume 20, Issue 2 (2011), pp. 355-358.

## **PRESENTATIONS AND PUBLIC LECTURES**

"Adaptation, Diversity, and Chance: Conceptual Interrelations in the History of Biology," presented at the 24th Annual Joint Atlantic Seminar on the History of Biology, Yale University, March 31-April 1, 1989.

"Rethinking Darwin: What are the Units of Selection?" presented at the International Society for the History, Philosophy, and Social Studies of Biology Conference, University of Western Ontario, London, Ontario, Canada, June 21-25, 1989.

"The Blind Watchmaker Breaker: Comments on 'Dawkins on Design -- A Critique of *The Blind Watchmaker*,' by Dallas Willard," presented at Biola University, La Mirada, CA, Feb.10, 1990.

"Philosophy and the Roots of the Ecological Crisis," presented at the LMU Earth Day Festival, Loyola Marymount University, Los Angeles, California, April 21, 1990.

"Evolution, Selection, and the Units of Adaptation," presented to the History and Philosophy of Science Section of the Pacific Division of the American Association for the Advancement of Science, University of California at Davis, June 21, 1990.

"Chance in Evolution," presented to the Biology Section of the Pacific Division of the American Association for the Advancement of Science, University of California at Davis, June 22, 1990.

"The Twin Paradox of Evolutionary Theory," at a conference on Philosophical Problems in Evolutionary Biology, University of Otago, Dunedin, New Zealand, August 4-6, 1990.

- "Selection, Drift, and the Aims of Evolutionary Theory," presentation to the Department of Philosophy of Loyola Marymount University, September 21, 1990.
- "Reincarnation and the Minnesota Twins," presentation to the LMU Philosophy Society, Los Angeles, CA, October 30, 1990.
- "Individuality and the New Essentialism in Evolutionary Biology," presented at the International Society for the History, Philosophy, and Social Studies of Biology Conference, Northwestern University, Evanston, Illinois, July 11-14, 1991.
- "Typological Thinking in Evolutionary Biology," presented at the IXth International Congress of Logic, Methodology, and Philosophy of Science, University of Uppsala, Sweden, August 7-14, 1991.
- "Teleological Reasoning in Robert Boyle's *Disquisition*," presented at the Stalbridge Boyle Symposium, Templecombe, Somerset, England, December 14-16, 1991.
- "The Science of Behavior," presented at Zhongshan University, Guangzhou, Guangdong, China, May 25, 1992.
- "The Sociobiology Controversy," presented at Shaanxi Teachers University, Xi'an, Shaanxi, China, June 9, 1992.
- "Realism and Antirealism in Evolutionary Biology," presented at the Beijing International Conference on Philosophy of Science, June 15-17, 1992, Beijing, China.
- "From the Renaissance to the New Age: Occult Powers in Early Modern Science and the Late Twentieth Century," presented to the LMU Philosophy Society, October 24, 1992.
- "Magic and Mechanics: Alchemy and the Emergence of Chemical Science," presented to the Department of Chemistry and Biochemistry, Loyola Marymount University, October 30, 1992.
- "Pluralistic Antirealism vs. Inclusive Hierarchical Monism in Evolutionary Biology," Philosophy Department Colloquium, Loyola Marymount University, April 23, 1993.
- "Methodological Pluralism, Scientific Realism, and the Units of Selection," presented at the International Society for the History, Philosophy, and Social Studies of Biology Conference, Brandeis University, Waltham, Massachusetts, July 14, 1993.
- "Pluralism, Monism, and Evolutionary Explanations of Behavior," presented at the Human Behavior and Evolution Society Meeting, State University of New York at Binghamton, Binghamton, New York, August 5, 1993.
- "From Magic to Mechanics: Alchemy and the Emergence of Modern Science," presented for

LMU President's Day, February 26, 1994.

"Pluralism, Relativism, and Post-Modernist Philosophy of Biology," presented at the Boston Colloquium for the Philosophy of Science, Boston University, April 27, 1994.

"History of Science and its Rational Reconstructions," presented to the Science Studies Core Seminar, University of California, San Diego, November 15, 1994.

"Cognitive Variation and Scientific Rationality," presented at the Science Studies Program Colloquium Series, University of California, San Diego, February 6, 1995.

"When Was it Rational, If At All, to be a 'Copernican'?", presented to Prof. Robert Westman's History of Science Seminar, University of California, San Diego, February 15, 1995.

"Feminism, Standpoint Epistemology, and the Privilege of Partial Perspective," presented to the Science Studies Core Seminar, University of California, San Diego, February 28, 1995.

"Teleology and the Mechanical Philosophy: Descartes and Boyle on Final Causality," presented at a conference on Descartes, Cartesianism, and Anti-Cartesianism, University of California at Irvine, June 10, 1995.

"Compromising History: A Critical Evaluation of Kitcher's Compromise Model of Scientific Closure," presented at the International Society for History, Philosophy, and Social Studies of Biology meeting, University of Leuven, Belgium, July 21, 1995.

"Darwinian Naturalism, Theism, and Biological Design," presented at a conference on Naturalism, Theism, and the Scientific Enterprise, hosted by the Department of Philosophy, University of Texas, Austin, February 20-23, 1997.

"The Patristic Theory of Resurrection: A Critical Evaluation," LMU Philosophy Department Colloquium, April 18, 1997.

"Evolutionary (In-)Determinism and the Statistical Nature of Evolutionary Theory," presented at the International Society for the History, Philosophy, and Social Studies of Biology Conference, University of Washington, Seattle, WA, July 16-20, 1997.

"In Darwin's Shadow: The Gould/Dawkins Debate Over Evolutionary Progress and the Nature of Darwinism," presented at the International Society for the History, Philosophy, and Social Studies of Biology Conference, Oaxaca, Mexico, July 6-11, 1999.

"Darwinian Medicine," presented to the LMU Dept. of Biology Seminar Series, Oct. 19, 1999.

"Is Evolution Progressive?" presented at the Australasian Association for the History, Philosophy, and Social Studies of Science Conference, University of Sydney, Australia, June 28-July 1, 2000.

"Darwinism and Christian Belief," poster presentation at conference on "Interpreting Evolution: Scientific and Religious Perspectives," Haverford College, Haverford, PA, June 17, 2001.

"Why Don't Zebras Have Machine Guns? Recent (and not so recent) Work on Adaptationism and Constraint," invited colloquium presentation, Department of Logic and Philosophy of Science, University of California, Irvine, October 8, 2004.

"Creationism, Intelligent Design and Evolutionary Biology," Marymount College's Scholar-in-Residence Mead Mentor Lecture, Marymount College, Palos Verde, CA, March 8, 2006.

"Can There be a Nonconsequentialist Rights-Based Moral Justification of Terrorism?" Athens International Conference on Philosophy, Athens, Greece, June 2, 2006.

"The Principle of Humanity and the Morality of Palestinian Terrorism," Hawaii International Conference on Arts and Humanities, Honolulu, Hawaii, January 12, 2008.

"Betraying a Certain Corruption of Mind: Terrorism and Moral Inquiry," LMU Department of Philosophy Colloquium, November 7, 2008.

"Why Don't Zebras Have Machine Guns? Selection, and Constraints in Evolutionary Theory," International Society for the History, Philosophy, and Social Studies of Biology Conference, Emmanuel College, St. Lucia, Brisbane, Queensland, Australia, July 12-16, 2009.

"The Evolution of Darwinism," *Defining Darwinism: One Hundred and Fifty Years of Debate*, The University of Lethbridge, Alberta, Canada, November 12-14, 2009.

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