

Gillian Barker

Curriculum vitae

Address

Rotman Institute of Philosophy
University of Western Ontario
Department of Philosophy, Stevenson Hall 2136
London, ON
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Education

Post-doctoral	Philosophy	Simon Fraser University	1999-2000
Ph. D.	Philosophy/Science Studies	University of California, San Diego	1997
	Dissertation: <i>Abstraction, Analogy and Induction: Toward a General Account of Ampliative Inference</i> (Supervisor: Philip Kitcher)		
M.A.	Philosophy/Science Studies	University of California, San Diego	1993
B.A.	History & Philosophy of Science	University of Toronto	1989

Academic Appointments

Assistant Professor, Department of Philosophy, University of Western Ontario	2008-2016
Assistant Professor, Department of Philosophy, Bucknell University	2000-2008
Visiting Assistant Professor, Indiana University, Bloomington	1995-1999

Areas of Specialization

Philosophy of Biology, Philosophy of Science, Environmental Philosophy

Areas of Competence

Feminist Philosophy of Science, Metaphysics and Epistemology, Philosophy of Ecology, Biomedical Ethics, History of Philosophy of Science

Grants and Fellowships

Catalyst Grant, Rotman Institute of Philosophy, "The Place of Resilience in Sustainability Science"	2012-2013
Seed Grant, Rotman Institute of Science and Values, "Biological Levers"	2010-2011
Seed Grant, Rotman Institute of Science and Values, "Methodology in Historical Sciences"	2010-2011
Social Sciences and Humanities Research Council of Canada, Research Communication Grant, "Integrating Complexity: Environment and History"	2010
Social Sciences and Humanities Research Council of Canada, Research Communication Grant, "Feminism, Science and Values"	2010

McDonnell Post-Graduate Fellowship, Simon Fraser University	1999-2000
University Humanities Dissertation Fellowship, University of California, San Diego	1993
University Humanities Fellowship, University of California, San Diego	1989
Southernton Wadhams Scholarship, University of Toronto	1988
Winifred Florence Hughes Scholarship, University of Toronto	1985, 1986

Publications

Books

- Barker, G. (2015) *Beyond Biofatalism: Human Nature for an Evolving World*, Columbia University Press.
- Barker, G. and P. Kitcher (2014) *Philosophy of Science: A New Introduction*, Oxford University Press.

Edited Volumes

- Barker, G. E. Desjardins and T. Pearce (eds.) (2013) *Entangled Life: Organism and Environment in the Biological and Social Sciences*, Springer Series: History, Philosophy & Theory of the Life Sciences.

Journal Publications and Book Chapters

- Desjardins, E.; Barker, G.; Dieleman, C.; Dussault, A. and Lindo, Z.: "Promoting Resilience." Quarterly Review of Biology, 90.2 (2015): 147-165.
- Barker, G.A. and Odling-Smee, J.: "Integrating Ecology and Evolution: Niche Construction and Ecological Engineering." In Barker et al. (eds.), *Entangled Life: Organism and Environment in the Biological and Social Sciences*, Springer (2014), 187-211.
- Desjardins, E.; Barker, G.A. and Madrenas, J.: "Thinking Outside the Mouse: Organism-Environment Interaction and Human Immunology." In Barker et al. (eds.), *Entangled Life: Organism and Environment in the Biological and Social Sciences*, Springer (2014): 167-183.
- Barker, G.A.: "Biological Levers and Extended Adaptationism." Biology and Philosophy 23.1 (2008): 1-25.
- Barker, G.A., Derr, P., and Thompson, N.S.: "The Perils of Confusing Nesting with Chaining in Psychological Explanations," Behavior and Philosophy 32.2 (2004): 293-303.
- Barker, G.A.: Book Review: "Matthew Elton, Daniel Dennett: Reconciling Science and our Self-Conception." Philosophy of Science 72.3 (2005): 508-510.
- Barker, G.A.: "Models of Biological Change: Implications of Three Recent Cases of 'Lamarckian' Change." In Bateson, P.P.G., Klopfer, P.H., and Thompson, N.S., eds., *Perspectives in Ethology* 10. Plenum Press, (1993): 229-248.

Under Review/Revision

- Barker, G. A.: "From Stability to Resilience: Lessons for Development from Ecology." (Under review: Phenomenology & the Cognitive Sciences).
- Barker, G.A.: "Moving the Goalposts: Re-Imagining How to Resolve the Functions Debate." (Under revision).
- Meyers, S.M., O'Mahony, J., Barker, G. and Kerfoot, S.: "Experimental Autoimmune Encephalomyelitis 101: Bridging the Gap between Human and Animal Multiple Sclerosis Researchers." (Under revision).

Papers Read:

Conference Presentations

“The GeoFunctions Project: Collaborative Research for Systems Innovation”

Socially Relevant Philosophy of/in Science and Engineering,
University of Texas, Dallas, May 21, 2016

“*Beyond Biofatalism: Human Nature for an Evolving World*: Replies to Downes, Hourdequin, and Odenbaugh”

Book Symposium, American Philosophical Association Pacific Division Meeting,
San Francisco, April 2, 2016

“Resilience and Ecological Function”

International Society for the History, Philosophy and Social Studies of Biology,
Montpellier, 2013

“Resilience: Stability, Adaptation and Transformation in Ecology and Psychology”

On the Future of Development: Challenges, Insights and New Concepts
Concordia University, 2013

“Rediscovering the Depths?: Philosophy and the Environment after the 20th Century”

Underground Ecocriticism
University of Western Ontario, 2012

“Thinking Outside the Mouse: Human Immunology, Animal Models and Organism-Environment Interaction”

(in collaboration with Eric Desjardins)
Canadian Society for the History and Philosophy of Science
Wilfrid Laurier University and the University of Waterloo, 2012

“Uncertainty, Resilience and Robustness in Adaptive Ecological Management”

(in collaboration with Eric Desjardins and Spencer Hey)
New Sciences, New Risks
University of Pittsburgh, 2012

“Altruism and Biological Leverage”

International Society for the History, Philosophy and Social Studies of Biology, 2011

“Thinking Ecologically”

SPARK!,
University of Western Ontario, 2011

“The Return of the Organism: The Role and Fate of some Romantic Themes in Contemporary Evolutionary Biology”

Romanticism and Evolution
University of Western Ontario, 2011

“Women’s Representation in Philosophy and the Sciences: Situation and Causes”

Women in Philosophy and the Sciences: Challenges and Strategies,
University of Western Ontario, 2010

“Naturalism in Biology”

Symposium: Naturalism in Science: Necessity or Bias?
Kansas State University, 2008

“How Systems Fail: Function, Malfunction, Dysfunction”

International Society for the History, Philosophy and Social Studies of Biology, 2007

“Feedback Structures, Causal Identity and Natural Teleology”

International Society for the History, Philosophy and Social Studies of Biology, 2001

Invited Talks:

“GeoFunctions: A New Concept for Understanding and Managing Global Change”

University of South Florida, Department of Philosophy, February 12, 2016

“Human Nature in Darwin’s World”

Keynote Presentation, University of South Florida Darwin Day,
University of South Florida, Departments of Integrative Biology and Philosophy, February 11, 2016

“Geo-Functions: A New Perspective for Understanding and Managing Global Change”

University of Miami, Department of Philosophy, April 13, 2015

“Resilience: What Psychology Can Learn from Ecology”

Queen’s University, Department of Philosophy, February 7, 2014

“Understanding Resilience and Ecological Function”

Concordia University, Department of Philosophy, October 31, 2013

“Evolution, Gender and Human Possibilities: Lessons from Ecology and Development”

Wilfrid Laurier University, Department of Philosophy, November 19, 2010

“Evolution, Gender and Human Possibilities: Lessons from Ecology and Development”

Keynote Address at Diotima Graduate Conference, University of Western Ontario,
September 25, 2010

“Naturalism and the Organism-Artifact Analogy in the Functions Debate”

University of Western Ontario, Department of Philosophy. February 4, 2008

“Naturalism and the Organism-Artifact Analogy in the Functions Debate”

University of California, Irvine, Department of Logic and Philosophy of Science.
January 21, 2008

“Towards a Unified Account of Function”

Simon Fraser University, Department of Philosophy, 1999

“Towards a Unified Account of Function”

University of British Columbia, Department of Philosophy, 1999

“Scientific Relativism and Objectivism: The Debate in Context”

Northwestern University, Department of Philosophy, 1998

“What Analogies and Ideal Models Can Tell Us about Induction”
Indiana University, Department of History and Philosophy of Science, 1997

“Deriving an 'Is' from an 'Ought': Moral Issues in the Debate over Cognitive Relativism”
Indiana University, Department of History and Philosophy of Science, 1996

“Abstraction, Analogy and Induction”
Cornell University, Department of Science & Technology Studies, 1994

Public Talks:

“Understanding Evolving: Ideas for Teaching Evolution, from Philosophy and Psychology”
University of South Florida Darwin Day Teachers’ Workshop, Museum of Science and Industry,
Tampa, February 13, 2016

“Philosophy, Science, and Practice: The Geo-Functions Project”
Carolinian Canada Forest Garden Convergence (sponsored by Rotman Institute of Philosophy)
June 6, 2015

“Ecological Thinking about Climate Change: A New Paradigm?”
London Public Library (sponsored by Rotman Institute of Philosophy), October 15, 2014

Teaching

University of Western Ontario

Introductory	<i>Nature, Ecology and the Future (Environmental Philosophy)</i> <i>Big Ideas</i>
Intermediate	<i>Philosophy of Biology</i> <i>Introduction to Theory of Knowledge</i> <i>Origins of Analytic Philosophy</i> <i>Philosophical Issues in Modern Biology</i> <i>Philosophy of Biology for Biologists</i> <i>The Ethics of Science/The Science of Ethics</i> <i>The Ethics of Science/ The Science of Ethics Part II – Community Engaged Learning</i>
Advanced	<i>Philosophy of Molecular Biology (Reading Course)</i> <i>The Neo-Darwinian Synthesis (Reading Course)</i> <i>Empiricism and Values in Logical Positivism (Reading Course)</i> <i>Early Analytic Philosophy (Reading Course)</i> <i>Topics in Philosophy of Science: Naturalism in Science and Philosophy</i> <i>Topics in Philosophy of Science: Modality, Normativity, Teleology, Intentionality</i>
Graduate	<i>Science and Values</i> <i>Evolutionary Approaches to Ethics and Epistemology</i> <i>Teleology, Intentionality and Normativity</i> <i>Survey of Philosophy of Biology</i> <i>Survey of Philosophy of Science</i>

Bucknell University

Introductory	<i>Introduction to Logic</i>
Intermediate	<i>Analytic Philosophy</i> <i>Philosophy of Science</i> <i>Philosophy of Biology</i> <i>Ecology, Nature and the Future (Environmental Philosophy)</i>
Advanced	<i>Senior Seminar: Ethics and the Natural World</i> <i>Senior Seminar: Philosophy of Mind</i>

Simon Fraser University

Introductory	<i>Logic and Scientific Reasoning</i>
Advanced	<i>Philosophy of Science</i>
Graduate	<i>Seminar in Philosophy of Science</i>

Indiana University, Bloomington.

Introductory	<i>Understanding Scientific Reasoning</i>
Advanced	<i>Ethics and the Natural World</i>
Graduate	<i>Seminar in Philosophy of Biology: Selective Accounts of Design, Meaning, and Knowledge</i> <i>Seminar in Philosophy of Science: Inference</i> <i>Seminar in Philosophy of Biology</i> <i>Independent Study: Complexity and Functional Explanation</i>

Professional Associations:

American Philosophical Association
Canadian Society for the History and Philosophy of Science
Philosophy of Science Association
International Society for the History, Philosophy and Social Studies of Biology

Conferences Organized:

Integrating Complexity: Environment and History
University of Western Ontario, October 7-10, 2010.
International Association of Women Philosophers Symposium: Feminism, Science and Values
University of Western Ontario, June 25-28, 2009.

Referee:

Acta Biotheoretica
Biology and Philosophy
Canadian Philosophical Association
Canadian Society for History and Philosophy of Science
Law and Philosophy
National Science Foundation (Science and Technology Studies General Advisory Panel)
Philosophy of Science
Social Studies of Science
Synthese