

Grant Ramsey

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Area of Specialization: Philosophy of Science, especially Philosophy of Biology

Area of Competence: Logic, History of Biology since Darwin

Academic Positions

June 2016-Now

BOFZAP Research Professor
Institute of Philosophy, KU Leuven

September 2015-June 2016

Fellow
National Humanities Center, Research Triangle Park, North Carolina

July 2007-June 2015

Assistant Professor
Department of Philosophy, University of Notre Dame
Program in History and Philosophy of Science, University of Notre Dame
Fellow
The Reilly Center for Science, Technology, and Values

Education

Duke University, August 2000 – May 2007
Ph.D. in Philosophy

The Evergreen State College, Olympia, Washington, August 1992 – June 1997
B.S. in Biology
B.A. in Philosophy

Research Awards

2013 Sir Karl Popper Prize, <http://www.thebsps.org/about-bjps/sir-karl-popper-essay-prize/>

Awarded for:

Pence, C. and Ramsey, G. (2013) "A new foundation for the propensity interpretation of fitness" *British Journal for the Philosophy of Science*. 64: 851-881. doi: <http://dx.doi.org/10.1093/bjps/axs037>

2017 Sir Karl Popper Prize, <http://www.thebsps.org/about-bjps/sir-karl-popper-essay-prize/>

Awarded for:

Ramsey, G. and De Block, A. (2017) "Is cultural fitness hopelessly confused?" *British Journal for the Philosophy of Science*. 68: 305-328. doi: <http://dx.doi.org/10.1093/bjps/axv047>

Teaching Awards

The *Bass Instructorship* award (2006) – awarded for excellence in undergraduate philosophy teaching.

Major Research Grants

The National Science Foundation Scholars Award (2015): \$188,000
(with Charles Pence, Co-PI)

Residential Fellowship Awards

National Humanities Center: Appointed as a fellow for the 2015-2016 academic year. (Accepted.)

Pittsburgh Center for Philosophy of Science: Appointed as a fellow for the 2015-2016 academic year. (Declined for National Humanities Center fellowship.)

Helsinki Collegium for Advanced Studies: Appointed as a fellow from September 2015 to July 2017. (Declined for National Humanities Center fellowship and BOFZAP Research Professorship.)

National Evolutionary Synthesis Center: Appointed as a fellow for the 2013-2014 academic year. (Accepted for Spring 2014 only.)

KU Leuven: Appointed as F+ Fellow summer 2013.

Graduate Student Placement

2016 – Hugh Desmond: Hugh was my third Ph.D. student and my first while at the KU Leuven. In 2017, Hugh accepted a postdoctoral fellowship at the Center for Biomedical Ethics and Law, KU Leuven.

2015 – Michael Deem: Michael was my second Ph.D. student and my final one while at the University of Notre Dame. In 2015, Michael accepted a tenure-track job at Indiana State University where he was Assistant Professor of Philosophy and an affiliated faculty member in The Center for Genomic Advocacy. In 2017, he accepted an Assistant Professorship at Duquesne University, and now holds a joint appointment in the School of Nursing and the Center for Healthcare Ethics.

2014 – Charles Pence: Charles was my first Ph.D. student. During his time at Notre Dame he helped develop the evoText project and worked

extensively on conceptual issues at the foundation of evolutionary theory. In 2014, he defended his dissertation and accepted a tenure-track job at Louisiana State University's Department of Philosophy and Religious Studies.

2014 - Anne Siebels Peterson: Anne's dissertation was advised by Michael Loux but she teamed up me to work on philosophy of biology, especially conceptual issues related to homology. In 2014, she accepted a tenure-track job in The Department of Philosophy at the University of Utah.

Postdoctoral Fellow Placement

2016 – Lane DesAutels: Lane came to Notre Dame after earning his Ph.D. at University of Maryland under the tutelage of Lindley Darden. We worked together until 2016 when Lane accepted a tenure-track job at Missouri Western State University, where he is Assistant Professor in the Department of Philosophy and Religion.

Publications – Journal Articles and Book Chapters

27. Pence, C. and Ramsey, G. (2018) "How to do digital philosophy of science" *Philosophy of Science* (in press).
26. Ramsey, G. (2018) "Trait bin and trait cluster accounts of human nature" in T. Lewens and (ed.) *Why We Disagree about Human Nature*, Oxford University Press. (volume forthcoming)
25. Ramsey, G. and De Block, A. (2017) "Is cultural fitness hopelessly confused?" *British Journal for the Philosophy of Science* 68:305-328. doi: <http://dx.doi.org/10.1093/bjps/axv047>
24. Ramsey, G. (2017) "What is animal culture?" in K. Andrews and J. Beck (eds.) *Routledge Companion to the Philosophy of Animal Minds*, Routledge Press, 345-353. doi: <https://www.routledgehandbooks.com/doi/10.4324/9781315742250>
23. Ramsey, G. (2017) "What is human nature for?" in A. Fuentes and A. Visala (ed.) *Verbs, Bones and Brains: Interdisciplinary Perspectives on Human Nature*, Notre Dame, University of Notre Dame Press, 217-230. <http://undpress.nd.edu/books/P03289>
22. Ramsey, G. (2016) "The causal structure of evolutionary theory" *Australasian Journal of Philosophy* 94: 421-434. doi: <http://dx.doi.org/10.1080/00048402.2015.1111398>
21. Ramsey, G. and Pence, C. (2016) "Chance in evolution from Darwin to contemporary biology" in G. Ramsey and C. Pence (eds.) *Chance in Evolution*, University of Chicago Press, 1-11. <http://press.uchicago.edu/ucp/books/book/chicago/C/bo24550500.html>
20. Ramsey, G. and Pence, C. H. (2016) "evoText: A new tool for analyzing the biological sciences." *Studies in History and Philosophy of Biological and*

- Biomedical Sciences* 57: 83-87. doi:
<http://dx.doi.org/10.1016/j.shpsc.2016.04.003>
19. Deem, M. and Ramsey, G. (2016) "Guilt by association?" *Philosophical Psychology* 29(4): 570-585. doi:
<http://dx.doi.org/10.1080/09515089.2015.1126706>
 18. De Block, A. and Ramsey, G. (2016) "The organism-centered approach to cultural evolution" *Topoi* 35: 283-290. doi:
<http://dx.doi.org/10.1007/s11245-014-9283-2>
 17. Deem, M. and Ramsey, G. (2016) "The evolutionary puzzle of guilt: Individual or group selection?" *Emotion Researcher*, Andrea Scarantino (ed.)
<http://emotionresearcher.com/the-evolutionary-puzzle-of-guilt-individual-or-group-selection/>
 16. Pence, C. and Ramsey, G. (2015) "Is organismic fitness at the basis of evolutionary theory?" *Philosophy of Science* 82: 1081-1091. doi:
<http://www.jstor.org/stable/10.1086/683442>
 15. Ramsey, G. (2015) "Can altruism be unified?" *Studies in History and Philosophy of Biological and Biomedical Sciences* 56: 32-38. doi:
<http://dx.doi.org/10.1016/j.shpsc.2015.10.007>
 14. Ramsey, G. (2013) "Human nature in a post-essentialist world" *Philosophy of Science* 80(5): 983-993. doi: <http://dx.doi.org/10.1086/673902>
 13. Ramsey, G. (2013) "Can fitness differences be a cause of evolution?" *Philosophy & Theory in Biology*. 5e:401.
<http://hdl.handle.net/2027/spo.6959004.0005.001>
 12. Pence, C. and Ramsey, G. (2013) "A new foundation for the propensity interpretation of fitness" *British Journal for the Philosophy of Science*. 64: 851-881. doi: <http://dx.doi.org/10.1093/bjps/axs037>
 11. Ramsey, G. (2013) "Organisms, traits, and population subdivisions: two arguments against the causal conception of fitness?" *British Journal for the Philosophy of Science*. 64: 589-608. doi:
<http://dx.doi.org/10.1093/bjps/axs010>
 10. Ramsey, G. (2013) "Culture in humans and other animals" *Biology and Philosophy*. 27: 457-479. doi: <http://dx.doi.org/10.1007/s10539-012-9347-x>
 9. Ramsey, G. (2012) "Driftability" *Synthese*. 190: 3909-3928. doi:
<http://dx.doi.org/10.1007/s11229-012-0232-6>
 8. Ramsey, G. (2012) "How human nature can inform human enhancement" *Philosophy and Technology*. 25: 479-483. doi:
<http://dx.doi.org/10.1007/s13347-012-0087-2>
 7. Ramsey, G. and Peterson, A. (2012) "Sameness in biology" *Philosophy of Science* 77: 255-275. doi: <http://dx.doi.org/10.1086/664744>

6. Ramsey, G. and Brandon, R. (2011) "Why reciprocal altruism is not a kind of group selection" *Biology and Philosophy* 26: 385-400. doi: <http://dx.doi.org/10.1007/s10539-011-9261-7>
5. Ramsey, G. (2007) "The Fundamental Constraint on the evolution of culture" *Biology and Philosophy* 22: 401-414. doi: <http://dx.doi.org/10.1007/s10539-006-9038-6>
4. Ramsey, G., Bastian, M. L., and van Schaik, C. (2007) "Animal innovation defined and operationalized" *Behavioral and Brain Sciences* 30: 393-437. doi: <http://dx.doi.org/10.1017/S0140525X07002373> [Note that this is a full target article, not a commentary.]
3. Brandon, R. and Ramsey, G. (2007) "What's Wrong with the Emergentist Statistical Interpretation of Natural Selection and Random Drift?" in D. Hull and M. Ruse (eds.) *Cambridge Companion to the Philosophy of Biology*, Cambridge, Cambridge University Press.
2. Ramsey, G. (2006) "Block fitness" *Studies in History and Philosophy of Biological and Biomedical Sciences* 37: 484-498. doi: <http://dx.doi.org/10.1016/j.shpsc.2006.06.009>
1. Cobb, A., Nadkarni, N., Ramsey, G., and Svoboda, A. J. (2001) "Recolonization of bigleaf maple branches by epiphytic bryophytes following experimental disturbance" *The Canadian Journal of Botany* 79: 1-8. doi: <http://dx.doi.org/10.1139/b00-134>

Publications – Books Series (as editor)

Cambridge Elements: Philosophy of Biology (with Michael Ruse)

Publications – Books (as editor)

Ramsey, G. and Pence, C. (2016) *Chance in Evolution*, University of Chicago Press.
<http://press.uchicago.edu/ucp/books/book/chicago/C/bo24550500.html>

Publications – Books (as author)

Ramsey, G. (under contract) *Human Nature*, Cambridge University Press.

Publications – Magazine/Blog articles

1. De Block, A. and Ramsey, G. (2015) "The life of Culture" *OUP Blog*,
<http://blog.oup.com/2015/11/the-life-of-culture/>

Publications – Encyclopedia Entries and Bibliographies

2. Ramsey, G. and Desmond, H. (2016) "Philosophy of Biology" *Oxford Bibliography*. <http://www.oxfordbibliographies.com/view/document/obo-9780195396577/obo-9780195396577-0341.xml>
1. Ramsey, G. and Pence, C. (2013) "Fitness: philosophical problems" *Wiley Encyclopedia of Life Sciences*. doi: <http://dx.doi.org/10.1002/9780470015902.a0003443.pub2>

Publications – Book Reviews

4. Hollocher, C. H. Pence, G. Ramsey, and M. M. Wirth. (2013) “A path to success? A Review of *Evolution, Development, and the Predictable Genome* by David L. Stern.” *Evolution and Development* 15(1): 80–82. doi: <http://dx.doi.org/10.1111/ede.12016>
3. Hollocher, H., A. Fuentes, C. H. Pence, G. Ramsey, D. J. Sportiello, and M. M. Wirth. (2011) “[Review of] *On the Origin of Stories: Evolution, Cognition, and Fiction.*” *The Quarterly Review of Biology* 86(2): 137–138. doi: <http://dx.doi.org/10.1086/659913>
2. Pence, C. H., H. Hollocher, R. Nichols, G. Ramsey, E. Siu, and D. J. Sportiello. (2011) “[Review of] *Did Darwin Write the Origin Backwards? Philosophical Essays on Darwin’s Theory.*” *Philosophy of Science* 78(4): 705–709. doi: <http://dx.doi.org/10.1086/661775>
1. Ramsey, G., H. Hollocher, A. Fuentes, C. H. Pence, and E. Siu. (2010) “[Review of] *Darwinian Populations and Natural Selection.*” *The Quarterly Review of Biology* 85(4): 499–500. doi: <http://dx.doi.org/10.1086/656856>

Taxonomic web publication

- Ramsey, G., Longino, J., and Kugler, C. (1998) *Formicidae: Rogeria crieghtoni* www.evergreen.edu/user/serv_res/research/arthropod/GENERA/Rogeria/SPECIES/crieghtoni/crieghtoni.html. (One of 13 published web pages on the ant genus *Rogeria*.)

Publications – Books (as illustrator)

- Lombardi, Angel. (1998) *Respecting the Knowledge: Ethnobotany of Western Washington*. Olympia: Washington State Capital Museum.
(Illustrated by Grant Ramsey)

Presentations

47. “Does evolutionary theory have a unified foundation?” Invited talk. Institut d’Histoire et de Philosophie des Sciences et des Techniques CNRS/ Université Paris I, Paris, France. November 13, 2017.
46. “Does evolutionary theory have a unified foundation?” Invited talk. UNED, Madrid, Spain. May 31, 2017.
45. “Does evolutionary theory have a unified foundation?” Invited talk. University of Valencia, Valencia, Spain. May 30, 2017.
44. “Toward unified concepts of culture and innovation” Keynote talk. CultureConference 2017, Birmingham, England. May 12–26, 2017.
43. “evoText and the Philosophy of Science” Symposium talk (with Charles Pence). Biennial Meeting of Philosophy of Science Association, Atlanta, Georgia. November 4, 2016.
42. “Trait bin and trait cluster accounts of human nature” Invited talk. Eindhoven University of Technology, Eindhoven, Netherlands. September 27, 2016.

41. "Causal-possibility explanations" Submitted conference talk (with Lane DesAutels). Meeting of the European Philosophy of Science Association, Heinrich Heine University, Düsseldorf, Germany, September 24, 2015.
40. "The nature of human nature" Invited talk. Universiteit Antwerpen, Antwerpen, Belgium, June 24, 2015.
39. "The nature of human nature" Invited talk. Université Paris I, Paris, France. June 17, 2015.
38. "Kinds of kinds" Invited talk. *Social Kinds and/as Natural Kinds* workshop. KU Leuven, Leuven, Belgium. May 26, 2015.
37. "The evoText project" Invited symposium talk (with Charles Pence). In the symposium titled "Quantitative textual analysis and philosophy: Hypothesis-testing and data-mining philosophical ideas" at the Annual Meeting of the Pacific Division of the American Philosophical Association, Vancouver, BC. April 4, 2015.
36. "The structure of evolutionary theory" Invited colloquium talk. Department of Philosophy, University of Rochester, Rochester, NY. December 19, 2014.
35. "Anthropomorphism and anthropodenial" Invited debate with Frans de Waal. KU Leuven, Belgium, December 4, 2014.
34. "Is cultural fitness hopelessly confused?" Invited colloquium talk. Meeting of the Southern California Philosophy of Biology, University of California San Diego, San Diego, CA. November 22, 2014.
33. "The causal structure of evolutionary theory" Invited colloquium talk. Department of Logic and Philosophy of Science, University of Irvine, Irvine, CA. November 21, 2014.
32. "Guilt as an evolutionary problem" Symposium talk (with Michael Deem). Biennial Meeting of Philosophy of Science Association, Chicago, IL. November 8, 2014.
31. "The possibility of altruism" Invited colloquium talk. Department of Philosophy, University of Leuven, Belgium. October 28, 2014.
30. "Is cultural fitness hopelessly confused?" Invited plenary talk. Human Evolution and Behavior Network, University of Antwerpen, Belgium. October 23, 2014.
29. "Human nature, culture, and the human sciences" Conference talk. Transfusion and Transformation: The Creative Potential of Interdisciplinary Knowledge Exchange, Institute for Advanced Study, Durham University, UK, July 16, 2014.
28. "Is organismic fitness at the basis of evolutionary theory?" Conference talk. British Society for the Philosophy of Science Meetings, Cambridge University, UK, July 10, 2014.
27. "Using evoText to plumb the depths of the evolutionary literature" Invited talk (with Charles Pence). The National Evolutionary Synthesis Center, May 8, 2014.
26. "Guilt by association?" Conference talk (with Michael Deem). Georgetown Conference on Emotions and Emotionality, April 12, 2014.
25. "Is human nature the subject of the human sciences?" Conference talk. Human Nature(s) Conference, University of Notre Dame, April 5, 2014.

24. "Is human nature the subject of the human sciences?" Invited talk. Department of Philosophy, Duke University, February 28, 2014.
23. "Is human nature the subject of the human sciences?" Invited talk. Center for Professional and Applied Ethics, University of North Carolina, Charlotte, February 11, 2014.
22. "Can altruism be unified?" Submitted conference talk. International Society for the History, Philosophy, and Social Studies of Biology Biannual Meeting, Montpellier, France. July 9, 2013.
21. "Guilt by association?" Invited talk (with Michael Deem). Cultural Evolution and the Emotions Conference, Leuven, Belgium, May 29, 2013.
20. "Fitness, selection, and the causes of evolution" Invited talk. Center for Philosophical Psychology. University of Antwerp, Antwerp, Belgium, May 22, 2013.
19. "Human nature in a post-essentialist world." Invited talk. Department of Philosophy, University of Maryland, College Park. March 7, 2013.
18. "Human nature in a post-essentialist world." Submitted conference talk. Department of Philosophy, University of Mississippi. February 2013.
17. "Human nature in a post-essentialist world." Submitted conference talk. Philosophy of Science Association Biennial Meeting. November 15, 2012.
16. "Human nature in a post-essentialist world." Invited talk. Department of Philosophy, University of Leuven, Belgium. October 19, 2012.
15. "Culture in humans and other animals." Invited keynote talk. Human Evolution and Behavior Network, University of Leuven, Belgium. October 18, 2012.
14. "What is cultural fitness?" Invited talk. Center for the Philosophy and History of Science, Boston University. December 2, 2011.
13. "Sameness in biology" Invited talk. Department of Biological Sciences, University of Illinois, Chicago. October 25, 2011.
12. "Can homology be unified?" Submitted conference talk. International Society for the History, Philosophy, and Social Studies of Biology Biannual Meeting, Salt Lake City, Utah. July 12, 2011.
11. "Drift as an individual-level process" Symposium talk. Pacific APA. Commentators: Mohan Matthen, Sarah Roe, and Vadim Keyser. April 22, 2011.
10. "Drift as an individual-level process" Invited talk. Metaphysics of Microevolution Workshop, University of Alabama, Birmingham. April 8, 2011.
9. "Can fitness differences be a cause of evolution?" Invited talk. Department of Philosophy, University of Leuven, Belgium. September 16, 2010.
8. "Human behavior and the disunity of fitness." Invited keynote talk. Human Evolution and Behavior Network, University of Leuven, Belgium. September 9, 2010.
7. "Solving and dissolving the problems of fitness" Invited talk. Department of History and Philosophy of Science, University of Indiana, Bloomington. April 16, 2010.

6. "Biological altruism reconsidered" Submitted conference talk. International Society for the History, Philosophy, and Social Studies of Biology Biannual Meeting, Brisbane, Australia, 2009.
5. "You can't get teleology from development alone: A reply to Dennis Walsh" Invited talk. Meeting of the Four University Consortium on the Philosophy of Biology, Montreal, Quebec, 2006.
4. "Why is it good to be cultured?" Submitted conference talk. International Society for the History, Philosophy, and Social Studies of Biology Biannual Meeting, Guelph, Ontario, 2005.
3. "Conceptual foundations of dual-inheritance theory: An introduction to the work of Peter Richerson" The Evolution of Cognition: Niche Construction, Culture, and Environmental Complexity (Fourth Annual Conference on Recent Work in Biology and Philosophy), Durham, North Carolina, 2005.
2. "Fitness and the fitness environment" Submitted conference talk. International Society for the History, Philosophy, and Social Studies of Biology Biannual Meeting, Vienna, Austria, 2003.
1. "Recolonization of big-leaf maple branches by epiphytic bryophytes following experimental disturbance: Evidence for autogenic factors in early succession" Submitted conference poster. 2nd International Forest Canopy Conference "Forest Canopies '98: Global Perspectives." Marie Selby Botanical Gardens, Sarasota, Florida, 1998.

Other Awards and Fellowships

At Notre Dame:

ISLA (Institute for Scholarship in the Liberal Arts) Exploratory Seminar:
Evolution Working Group 2012
ISLA Digital Humanities Working Group 2011
Henkels Lecture Series grant 2010
Provost's Initiative on Building Intellectual Community 2011
Provost's Initiative on Building Intellectual Community 2009
ISLA International Travel Grant
ISLA RA Funding Grant

At Duke University:

Duke University Conference Travel Grant 2006
Duke University Graduate Fellowship 2000 – 2007
Duke University Summer Research Fellowship 2005
Duke University Conference Travel Grant 2005
Vienna International Summer University Travel Grant and Tuition 2003
Vienna International Summer University Travel Grant and Tuition 2001

Teaching Experience

At Notre Dame:

In Search of Utopia (College Seminar, undergrad), Spring 2015
The Life and Work of Darwin (400-level, undergrad), Spring 2015
Image Makers / Image Takers (College Seminar, undergrad), Fall 2014
Philosophy of Biology (graduate level), Fall 2014
Image Makers / Image Takers (College Seminar, undergrad), Fall 2013
The Life and Work of Darwin (400-level, undergrad), Fall 2013
Scientific Images of Humanity (400-level, undergrad), Spring 2012
In Search of Utopia (College Seminar, undergrad), Spring 2013
Image Makers / Image Takers (College Seminar, undergrad), Fall 2012
Philosophy of Biology (graduate level), Fall 2012
Darwin, Philosophy, and Theology (400-level, undergrad), Spring 2012
In Search of Utopia (College Seminar, undergrad), Spring 2012
Image Makers / Image Takers (College Seminar, undergrad), Fall 2011
The Life and Work of Darwin (400-level, undergrad), Fall 2011
Philosophy of Science, Fall 2010
Heaven on Earth? Utopian Ideals and Human Nature (College Seminar, undergrad), Fall 2010
Chance and Evolution (graduate level), Spring 2010
Heaven on Earth? Utopian Ideals and Human Nature (College Seminar, undergrad), Spring 2010
Scientific Images of Humanity (200-level, undergrad), Fall 2009
Darwin, Philosophy, and Religion (400-level, undergrad), Fall 2009
Darwin in the 21st Century (graduate level), Spring 2009
The Life and Work of Darwin (400-level, undergrad), Spring 2009
Scientific Images of Humanity (200-level, undergrad), Fall 2008
Philosophy of Biology (graduate level), Spring 2008
Philosophy of Biology (200-level, undergrad), Fall 2007

At Duke University:

Philosophy of Human Nature, Spring 2007
Philosophy of Biology, Summer 2006
Introduction to Philosophy, Fall 2005
Introduction to Philosophy, Fall 2004
Introduction to Philosophy, Spring 2004
Philosophy of Law, Fall 2003, *Teaching assistant for professor Martin Golding.*
Aristotle, Spring 2003, *Teaching assistant for professor Michael Ferejohn.*
Introduction to Philosophy, Fall 2002, *Teaching assistant for professor Owen Flanagan.*
Modern Philosophy, Fall 2001, *Teaching assistant for professor Tad Schmaltz.*

Professional Review and Editorial Activities

Reviewer for the journals *American Naturalist*, *Biology & Philosophy*, *British Journal for the Philosophy of Science*, *Philosophical Psychology*, *Philosophy and Technology*, *Philosophy and Theory in Biology*, *Philosophy of Science*, and *Theoria*.

Editorial Board, *Philosophy Compass* (Fall 2011 – present)

National Science Foundation grant proposal reviewer.

Professional Organizational Activities

Organizer: The Evolution Working Group, Fall 2009 – Spring 2015.

Co-organizer: “Chance and Evolution” Sixth Annual Conference on Recent Work in Biology and Philosophy, Spring 2007, supported by the Duke University Center for the Philosophy of Biology,
<http://www.duke.edu/philosophy/bio/conference>

Co-organizer: “The Evolution of Cognition: Niche Construction, Culture, and Environmental Complexity” Fourth Annual Conference on Recent Work in Biology and Philosophy, April 2005, supported by the Duke University Center for the Philosophy of Biology,
<http://www.duke.edu/philosophy/bio/conference>

Graduate Student Representative: Duke University Philosophy Department, August 2004 – August 2005.

Employment and Research (before earning PhD)

Biology Researcher: Fieldworker and data analyst. The University of North Carolina at Chapel Hill, Department of Biology, Robert Peet Lab, May-December 1999.

Biology Researcher: Designed and implemented study of herbivore deterrence in the *Pseudomyrmex* (Hymenoptera: Formicidae) – *Triplaris* (Polygonaceae) ant-plant symbiosis in lowland Amazonian rain forest. Manu Biosphere Reserve, Peru, March-June 1998

Biology Researcher: Fieldworker and data analyst. Designed and implemented ecological study of epiphyte recolonization in big-leaf maple canopies. This research was published in *The Canadian Journal of Botany* (see citation above). International Canopy Network, Olympia, Washington, August 1997 - March 1998.

Editor: Layout Editor and Assistant Copy Editor. “What’s Up: Newsletter of the International Canopy Network.” International Canopy Network, Olympia, Washington, August 1997 - March 1998.

Biology Researcher: Designed and implemented study of the *Myrmelachista* – *Ocotea* cloud forest ant-plant mutualism. Monteverde, Costa Rica, December 1995-March 1996.

Professional Associations

American Academy for the Advancement of Science

American Philosophical Association

British Society for the Philosophy of Science

International Society for the History, Philosophy, & Social Studies of Biology

Philosophy of Science Association