

# **CURRICULUM VITAE**

**Peter Godfrey-Smith**

**2009**

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## **BIOGRAPHICAL**

Born Sydney, Australia in 1965.

Citizenship: Australia and US.

Married with no children.

## **ACADEMIC APPOINTMENTS**

1991 to 1998: Assistant Professor of Philosophy, Stanford University.

1998 to 2003: Associate Professor of Philosophy, Stanford University.

2003 to 2005: Professor of Philosophy (50%), Research School of Social Sciences, Australian National University, and Visiting Professor of Philosophy (50%), Harvard University.

2006 to present: Professor of Philosophy, Harvard University.

## **EDUCATION**

1987: Bachelor of Arts with First Class Honors and University Medal, University of Sydney.

1991: PhD in Philosophy, University of California, San Diego.

Dissertation: "Teleonomy and the Philosophy of Mind."

## **FELLOWSHIPS AND AWARDS:**

1994: Dean's Award for Distinguished Teaching, Stanford University.

1994: Dean's Fellow in the Humanities, Stanford University.

1998: Marta Sutton Weeks Faculty Scholarship (for 1998-2001), Stanford University.

2001: Association of Stanford University Students (ASSU) Teaching Award.

## **AREAS OF SPECIALIZATION**

Philosophy of biology, philosophy of mind.

## **OTHER RESEARCH AND TEACHING AREAS**

Philosophy of science, pragmatism (especially John Dewey), metaphysics, epistemology.

## **VISITING POSITIONS**

1995 (Spring): Visiting Lecturer, School of Philosophy, University of Sydney.

2000-2001 (fall semester): Visiting Associate Professor, Department of Philosophy, Harvard University.

## **EDITORIAL AND ADVISORY WORK**

Associate editor, *Biology and Philosophy*, 2000 to present.

Editorial board, *Philosophy of Science*, 2009 to present.

Advisory Committee to the Program Committee, American Philosophical Association, Eastern Division, 2009 to present.

## **PUBLICATIONS**

### **Books:**

1. *Complexity and the Function of Mind in Nature*. Cambridge: Cambridge University Press, 1996.  
Chinese translation, Hunan Science and Technology Press, 1998.
2. *Theory and Reality: An Introduction to the Philosophy of Science*. Chicago: University of Chicago Press, 2003.
3. *Darwinian Populations and Natural Selection*. Oxford: Oxford University Press, 2009.

### Articles in Journals:

1. "Why Semantic Properties Won't Earn their Keep," *Philosophical Studies* 50 (1986): 223-236.
2. "Misinformation," *Canadian Journal of Philosophy* 19 (1989): 533-50.
3. "Signal, Decision, Action," *Journal of Philosophy* 88 (1991): 709-722.
4. "Indication and Adaptation," *Synthese* 92 (1992): 283-312.
5. "The Dimensions of Selection," with R. C. Lewontin, *Philosophy of Science* 60 (1993): 373-395.
6. "Functions: Consensus Without Unity," *Pacific Philosophical Quarterly* 74 (1993): 196-208.  
Reprinted in D. Hull and M. Ruse (eds.), *The Philosophy of Biology*. Oxford: Oxford University Press, 1998, pp. 280-92.  
Reprinted also in D. Buller (ed.) *Function, Selection and Design*. Albany: Suny Press, 1999, pp. 185-197.
7. "A Modern History Theory of Functions," *Noûs* 28 (1994): 344-362.  
Reprinted in C. Allen, M. Bekoff and G. Lauder (eds.), *Nature's Purposes: Analyses of Function and Design in Biology*. Cambridge MA: MIT Press, 1998, pp. 453-77.  
Reprinted also in D. Buller (ed.) *Function, Selection and Design*. Albany: Suny Press, 1999, pp. 199-220.
8. "On the Evolution of Behavioral Heterogeneity in Individuals and Populations," with (first author) C. Bergstrom, *Biology and Philosophy* 13 (1998): 205-231.
9. "Adaptationism and the Power of Selection," *Biology and Philosophy* 14 (1999): 181-194.
10. "On the Theoretical Role of 'Genetic Coding,'" *Philosophy of Science* 67 (2000): 26-44.
11. "The Replicator in Retrospect," *Biology and Philosophy* 15 (2000): 403-423.
12. "Explanatory Symmetries, Preformation and Developmental Systems Theory," *Philosophy of Science* 67 (2000): S322-S331. (Proceedings of PSA 1998).
13. "On the Evolution of Representational and Interpretive Capacities," *The Monist* 85 (2002): 50-69.
14. "Dewey on Naturalism, Realism and Science," *Philosophy of Science* 69 (2002): S1-S11 (Proceedings of PSA 2000).

15. "Individualist and Multi-level Perspectives on Selection in Structured Populations," with (first author) B. Kerr. *Biology and Philosophy* 17 (2002): 477-517. Target article with three commentaries and replies, "Group Fitness and Multi-Level Selection: Replies to Commentaries," pp. 539-549.
16. "On Price's Equation and Average Fitness," with (first author) B. Kerr. *Biology and Philosophy* 17 (2002): 551-565.
17. "Goodman's Problem and Scientific Methodology," *Journal of Philosophy* 100 (2003): 573-590.
18. "What is Altruism?" with (first author) B. Kerr and M. Feldman. *Trends in Ecology and Evolution* 19 (2004): 135-140.
19. "Folk Psychology as a Model," *The Philosopher's Imprint* 5 (2005) No. 6: 1-16.
20. "Theories and Models in Metaphysics," *Harvard Review of Philosophy* 14 (2006): 4-19.
21. "Local Interaction, Multi-Level Selection, and Evolutionary Transitions," *Biological Theory* 1 (2006): 372-380.
22. "The Strategy of Model-Based Science," *Biology and Philosophy* 21 (2006): 725-740.
23. "Conditions for Evolution by Natural Selection," *Journal of Philosophy* 104 (2007): 489-516.
24. "Varieties of Population Structure and the Levels of Selection," *British Journal for the Philosophy of Science* 59 (2008): 25-50.
25. "Triviality Arguments Against Functionalism," *Philosophical Studies* 145 (2009): 273-295.
26. "Models and Fictions in Science," *Philosophical Studies* 143 (2009): 101-116.
27. "Generalization of the Price Equation for Evolutionary Change," with (as first author) Ben Kerr. *Evolution* 63 (2009): 531-536.
28. "Adaptationism and the Adaptive Landscape," with (as first author) Jon F. Wilkins. *Biology and Philosophy* 24 (2009): 199-214.
29. "Selection in Ephemeral Networks," with (as second author) Ben Kerr. *American Naturalist*, forthcoming.

### **Chapters in Books:**

1. "Additivity and the Units of Selection," in D. Hull, M. Forbes and K. Okruhlik (eds.) *PSA 1992*, Volume 1. East Lansing: Philosophy of Science Association, 1992, pp. 315-328.

2. "Of Nulls and Norms," in D. Hull, M. Forbes and K. Okruhlik (eds.) *PSA 1994*, Volume 1. East Lansing: Philosophy of Science Association, 1994, pp. 280-290.
3. "A Continuum of Semantic Optimism," in S. Stich and T. Warfield (eds.), *Mental Representation: A Reader*. Oxford: Blackwell, 1994, pp. 259-277.
4. "Spencer and Dewey on Life and Mind," in R. Brooks and P. Maes (eds.), *Artificial Life 4*. Cambridge MA: MIT Press, 1994, pp. 80-89.  
Reprinted with revisions in M. Boden (ed.), *The Philosophy of Artificial Life*. Oxford: Oxford University Press, 1996, pp. 314-331.
5. "Three Kinds of Adaptationism," in S. H. Orzack and E. Sober (eds.), *Adaptationism and Optimality*. Cambridge: Cambridge University Press, 2001, pp. 335-357.
6. "Organism, Environment and Dialectics," in R. Singh, C. Krimbas, D. Paul and J. Beatty (eds.), *Thinking About Evolution: Historical, Philosophical and Political Perspectives*. (Volume 2 of a Festschrift for R. C. Lewontin). Cambridge: Cambridge University Press, 2001, pp. 253-266.
7. "Genes and Codes: Lessons from the Philosophy of Mind?" in V. Hardcastle (ed.), *Where Biology Meets Psychology: Philosophical Essays*. Cambridge MA: MIT Press, 1999, pp. 305-331.
8. "Environmental Complexity and the Evolution of Cognition," in R. Sternberg and J. Kaufman (eds.), *The Evolution of Intelligence*. Mahwah: Lawrence Erlbaum, 2002, pp. 233-249.
9. "On the Status and Explanatory Structure of DST," in S. Oyama, P. Griffiths and R. Gray (eds.), *Cycles of Contingency: Developmental Systems and Evolution*. Cambridge MA: MIT Press, 2001, pp. 283-297.
10. "Information and the Argument from Design," in R. Pennock (ed.), *Intelligent Design Creationism and its Critics: Philosophical, Theological and Scientific Perspectives*. Cambridge MA: MIT Press, 2001, pp. 575-596.
11. "On Genetic Information and Genetic Coding," in P. Gardenfors, J. Wolenski and K. Kajania-Placek (eds.), *In the Scope of Logic, Methodology, and the Philosophy of Science*, Vol. II. Dordrecht: Kluwer, 2002, pp. 387-400.
12. "Between Baldwin Boosterism and Baldwin Skepticism," in B. Weber and D. Depew (eds.), *Evolution and Learning: The Baldwin Effect Reconsidered*. Cambridge MA: MIT Press, 2003, pp. 53-67.

13. "On Folk Psychology and Mental Representation," in H. Clapin, P. Staines, and P. Slezak (eds.) *Representation in Mind: New Approaches to Mental Representation*. Amsterdam: Elsevier Publishers, 2004, pp. 147-162.
14. "Untangling the Evolution of Mental Representation," in A. Zilhão (ed.), *Cognition, Evolution, and Rationality: A Cognitive Science for the 21st Century*. London: Routledge, 2005, pp. pp. 85-102.
15. "Mental Representation, Naturalism, and Teleosemantics," in G. MacDonald and D. Papineau (eds.), *Teleosemantics*. Oxford: Oxford University Press, 2006, pp. 42-68.
16. "Innateness and Genetic Information," in P. Carruthers, S. Lawrence, and S. Stich (eds.), *The Innate Mind, Volume 3: Foundations and the Future*. Oxford University Press, 2007, pp. 55-68.
17. "Adaptationism," (with Jon F. Wilkins), in S. Sarkar and A. Plutynski (eds.), *A Companion to the Philosophy of Biology*. London: Blackwell, 2008, pp. 186-201.
18. "Biological Information," (with Kim Sterelny), *The Stanford Encyclopedia of Philosophy (Winter 2007 Edition)*, Edward N. Zalta (ed.), <http://plato.stanford.edu/archives/win2007/entries/information-biological/>.
19. "Reduction in Real Life," in J. Hohwy and J. Kallestrup (eds.), *Being Reduced*. Oxford: Oxford University Press, 2008, pp. 52-74.
20. "Information in Biology," in D. Hull and M. Ruse (eds.), *The Cambridge Companion to the Philosophy of Biology*. Cambridge: Cambridge University Press, 2007, pp. 103-119,
21. "Popper's Philosophy of Science: Looking Ahead," to appear in G. Shearmur and G. Stokes (eds.), *The Cambridge Companion to Karl Popper*. Cambridge University Press.
22. "Representationalism Reconsidered," in D. Murphy and M. Bishop (eds.), *Stich and His Critics*. Chichester: Wiley-Blackwell, 2009, pp. 30-45.
23. "Induction, Samples, and Kinds," to appear in J. Campbell, M. O'Rourke, and M. Slater (eds.), *Carving Nature at its Joints: Topics in Contemporary Philosophy*, Volume 8, forthcoming with MIT Press.
24. "Abstractions, Idealizations, and Evolutionary Biology," in A. Barberousse, M. Morange, and T. Pradeu (eds.), *Mapping the Future of Biology: Evolving Concepts and Theories*. (*Boston Studies in the Philosophy of Science*), Springer, 2009, pp. 47-56

**Book Reviews, Discussion Notes, Replies to Critics, Encyclopedia Entries, etc:**

1. Review of Ruth Millikan's *Language, Thought, and Other Biological Categories* (1984). *Australasian Journal of Philosophy* 66 (1988): 556-560.
2. "Optimality and Psychological Explanation," (invited commentary) *Behavioral and Brain Sciences* 14 (1991): 496.
3. Review of Elliott Sober's *Reconstructing the Past: Parsimony, Evolution and Inference* (1988). *Philosophy and Phenomenological Research* 53 (1993): 487-490.
4. "Function" in J. Kim and E. Sosa (eds.), *A Companion to Metaphysics*. Oxford: Blackwell, 1995, pp. 187-88.
5. "Preface to Chapters 15 and 16," in R. Belew and M. Mitchell (eds.), *Adaptive Individuals in Evolving Populations: Models and Algorithms*. Santa Fe Institute Studies in the Sciences of Complexity, Proceedings Vol. XXIII. Reading MA: Addison-Wesley, 1995, pp. 227-31. The Preface is to selections from Herbert Spencer's writings on evolution, chosen by me.
6. "Meaning, Models and Selection: A Review of [David Papineau's] *Philosophical Naturalism*." *Philosophy and Phenomenological Research* 56 (1996): 673-578.
7. Review of Elliot Sober's *From a Biological Point of View* (1994). *Journal of Philosophy* 94 (1997): 160-164.
8. "Précis of *Complexity and the Function of Mind in Nature*," *Adaptive Behavior* 4 (1996): 453-465.
9. "Replies to Four Critics," *Adaptive Behavior* 4 (1996): 486-93. (Replies to reviews of *Complexity and the Function of Mind in Nature*.)
10. "Replies to Sober, Sterelny and Neander," *Biology and Philosophy* 12 (1997): 581-590. (Replies to reviews of *Complexity and the Function of Mind in Nature*.)
11. "Author's Outline" and "Replies to Critics" of *Complexity and the Function of Mind in Nature*, *Metascience* 12 (1997): 7-12, 31-37.
12. Entry for "J. A. Fodor," in the *Routledge Encyclopedia of Philosophy*.
13. Entry for "Semantics, Teleological/Biological," in the *Routledge Encyclopedia of Philosophy*.
14. "Maternal Effects: On Dennett and *Darwin's Dangerous Idea*," *Philosophy of Science* 65 (1998): 709-720.

15. "Procrustes Probably: Comments on Sober's 'Physicalism from a Probabilistic Point of View,'" *Philosophical Studies* (Proceedings of the 1997 Oberlin Philosophy Colloquium) 95 (1999): 175-181.
16. Entry for "Pragmatism" in the *Elsevier Encyclopedia of the Social and Behavioral Sciences*, 2001.
17. "Niche Construction in Biological and Philosophical Theories," (invited commentary) *Behavioral and Brain Sciences* 23 (2000): 153-154.
18. "Information, Arbitrariness and Selection: Comments on Maynard Smith," *Philosophy of Science* 67 (2000): 202-207.
19. "On the Role of Information and Replication in Selection Processes," (peer commentary) *Behavioral and Brain Sciences* 24 (2001): 538.
20. "Group Selection, Pluralism, and the Evolution of Altruism: A Review of [E. Sober and D. S. Wilson's] *Unto Others*," (with M. Barrett), *Philosophical and Phenomenological Research* 65 (2002): 685-691.
21. Review of Kim Sterelny's *The Evolution of Agency and Other Essays* (2001). *Mind* 112 (2003): 567-572
22. "Folk Psychology Under Stress: Comments on Susan Hurley's 'Animal Action in the Space of Reasons,'" *Mind and Language* 18 (2003): 266-272.
23. "Explanation in Evolutionary Biology: Comments on Fodor ," *Mind and Language* 23 (2008): 32-41.
24. "Recurrent Transient Underdetermination and the Glass Half Full," *Philosophical Studies* 137 (2008): 141-148.

#### **Articles in Magazines and Newspapers:**

1. "Can We Control Disease?" (Review of Laurie Garrett's *The Coming Plague*, 1995). *Boston Review* 22 (1997): 16-19.
2. "Useful Lessons from California," *Quadrant Magazine*, Volume 50 (2006): 64-66.  
An edited version appears as "The Model of Achievement" in the *Australian* newspaper, Higher Education Supplement, November 1, 2006.
3. "Tiers of Success in a Smooth System," The *Australian* newspaper, Higher Education Supplement, November 10, 2008.

## SELECTED TALKS AND PRESENTATIONS

(Complete list available on request)

"Author meets Critics" session on my book *Complexity and the Function of Mind in Nature*, Pacific Division Meetings of the American Philosophical Association, Seattle, 1996.

"Dewey and the Question of Realism"

- Harvard University, Philosophy Department Colloquium, 1996
- University of North Carolina, Chapel Hill, Philosophy Department Colloquium, 1997

"On the Theoretical Role of 'Genetic Coding'"

- Australasian Association of Philosophy Meetings, 1998
- University of Minnesota at Minneapolis, Science Studies Colloquium, 1999
- College for Theoretical Biology, Humboldt University, Berlin, 1999
- 11th International Congress of Logic, Methodology and Philosophy of Science, Cracow, Poland, 1999

"Some Unorthodox Theories of Causation"

- Michigan University Philosophy Department Colloquium, 2000
- Yale University Philosophy Department Colloquium, 2000
- Harvard University Philosophy Department Colloquium, 2000

"John Dewey's Philosophy of Science"

- Philosophy of Science Association Meetings (PSA 2000), Vancouver
- Columbia University, History and Philosophy of Science Colloquium, 2001.

"Adventures in Indoor Ornithology"

- Berkeley/Stanford Graduate Student Conference, Keynote Address, 2001.
- UC Irvine, Department of Logic and Philosophy of Science, 2001.
- Australian National University, Philosophy Program (RSSS), 2001.

"Goodman's Problem and Scientific Methodology"

- Melbourne University, Philosophy Department Colloquium, 2001.

- UC Berkeley, History and Philosophy of Science, Logic and Mathematics Group, 2002.

"Darwinian Populations and Group Selection"

- Pittsburgh University (History and Philosophy of Science), 2004.

"Model-Based Science and the Representational Theory of Mind"

- Australasian Association of Philosophy Conference, 2004.
- Boston University Colloquium in the Philosophy of Science, 2005.
- MIT Work in Progress Seminar Series, 2005.

"Functionalism Remodeled"

- Princeton University, Philosophy Department Colloquium, 2005.

"Dewey, Continuity, and McDowell"

- Keynote address at the Harvard/MIT Graduate Conference, 2006.

"Progress and Procedures in Scientific Epistemology."

- The Reichenbach Lecture at UCLA, 2007.

"Inductive Inference and Natural Kinds."

- Inland Northwest Philosophy Conference 2008, Moscow, Idaho, Keynote Address.
- Australasian Association of Philosophy, 2008.
- NYU, Philosophy Department Colloquium, 2009.
- UCSD Philosophy Graduate Symposium (Keynote), 2009.

"Models and Fictions in Science."

- Oberlin Philosophy Colloquium, 2008.
- Bristol University, 2008.
- Sydney University, 2008.
- Conference on Academic Evolution and Hybridization: Literature and the Sciences, University of Tennessee, Knoxville, 2008.