

Curriculum Vitae

ELLIOTT SOBER

January 2026

POSITIONS HELD

William H. Bonsall Visiting Professor in the Humanities, Department of Philosophy, Stanford University, 2024-2029.

William F. Vilas Research Professor, Department of Philosophy, University of Wisconsin-Madison, 1993-2023.

Emeritus 2023-present.

Hans Reichenbach Professor, Department of Philosophy, University of Wisconsin-Madison, 1989-2023. Emeritus 2023-present.

Tata Chancellor's Endowed Professorship in Arts and Humanities, University of California (San Diego), winter quarters 2019 and 2020.

President, International Union of History and Philosophy of Science and Technology (Division of Logic, Methodology, and Philosophy of Science), 2012-2015.

Chair, History and Philosophy of Science (Section L), American Association for the Advancement of Science, 2015.

President, Philosophy of Science Association, 2003-2005.

President, American Philosophical Association (Central Division), 1998-1999.

University of Sydney International Visiting Research Fellow, Spring 2010.

Rockefeller Foundation Scholar in Residence, Bellagio Study Center, Italy. Spring 2006.

Visiting Professor, London School of Economics and Political Science, 2003-2008.

Professor, Department of Philosophy, Stanford University, 2003-2004.

Centennial Professor, London School of Economics and Political Science, 1999-2002.

Secretary, International Union for History and Philosophy of Science, Division of Logic, Methodology, and Philosophy of Science, 1991-1999.

Chair, Department of Philosophy, University of Wisconsin, Madison, 1993-1997.

Professor, Department of Philosophy, University of Wisconsin-Madison, 1984-2023. Emeritus 2023- present.

Associate Professor, Department of Philosophy, University of Wisconsin-Madison, 1980-1984.

Assistant Professor, Department of Philosophy, University of Wisconsin-Madison, 1974-1980.

Co-Director, International Summer School, Institute Vienna Circle, University of Vienna, 2001.

Member, Advisory Committee of the Center for the Humanities, 2004-2007.

Adjunct Member of the Institute for Research in the Humanities, University of Wisconsin, Madison, 1993-1997.

William Evans Visiting Fellow, Department of Philosophy, University of Otago, Dunedin, New Zealand, 1990.

Visiting Scientist, Museum of Zoology, University of Michigan, Ann Arbor, Spring 1988.

Fellow in Population Genetics, Harvard University, 1980-81.

HONORS: *Philosophy of Evolutionary Theory* named by *Choice* an Outstanding Academic Title (2024); Inaugural Phil-In-Bio-Med Laureate (2023); Corresponding Fellow, British Academy (2020); UW Letters and Science Honors Program Distinguished Faculty Award (2018); Dr. Martin R. Lebowitz and Eve Lewellis Lebowitz Prize for Philosophical Achievement, awarded by the Phi Beta Kappa Society and the American Philosophical Association (2017); Sanders Book Prize Honorable Mention (2017) awarded by the American Philosophical Association, and PROSE Award Honorable Mention for Philosophy (2016) awarded by the Association of American Publishers — for *Ockham's Razors*; University Housing Honored Instructor (2017, 2018); Philosophy of Science Association Carl Gustav Hempel Award (2014); UW-Madison Hilldale Award (2014); American Philosophical Association Prometheus Laureate (2008); American Philosophical Association Patrick Romanell Lecturer (2008); Fellow, American Academy of Arts and Sciences (1999-present); Fellow, American Association for the Advancement of Science (2003-present); Fellow, Linnaean Society of London (2009-present); Lakatos Award for *Reconstructing the Past* (1991); Articles included in *Philosopher's Annual* (1988, 1993, 2000, 2009); Fellow, International Academy of Philosophy of Science (2001-present); National Science Foundation grants (1982, 1983, 1984, 1985, 1987, 1989, 1992, 1993, 2000-2003); National Endowment for the Humanities fellowships (1978, 1986); Romnes Faculty Fellowship (1982); John Simon Guggenheim Fellowship (1980-81).

EDUCATION: Harvard University (1972-74), Ph.D.; Cambridge University (1970-72), Research Student; University of Pennsylvania (1969-70), M. Sci. Ed.; University of Pennsylvania (1965-69), B.A.

PUBLICATIONS

A. Books and Edited Anthologies

The Philosophy of Evolutionary Theory – Concepts, Inferences, and Probabilities, Cambridge University Press, 2024. Translated into Chinese and published by the Law Press forthcoming. Translated into Turkish by Mehmet Elgin and Ergi Oscoy and published by Akademim Publishing House forthcoming. Translated into Spanish and published by Grupo Anaya forthcoming. Translated into Japanese and published by Keiso Shobo forthcoming.

The Design Argument. Cambridge University Press, 2019. Translated into Persian by Masoud Toossi and published by Soroush Publisher, 2024.

Ockham's Razors – A User's Manual. Cambridge University Press, 2015. Translated into Japanese by Ryota Morimoto and published by Keiso Shobo, 2021.

Did Darwin Write the Origin Backwards? Philosophical Essays on Darwin's Theory. Prometheus Books, 2011. A Polish translation of Chapter 4 ("Darwin and Naturalism") appears in the on-line journal *Filozoficzne Aspekty Genezy* (Philosophical Aspects of Origin), <http://www.nauka-a-religia.uz.zgora.pl/index.php/pl/czasopismo>. 2017, vol. 14.

Evidence and Evolution – the Logic Behind the Science, Cambridge University Press, 2008. Translated into Japanese by Masahiro Matsuo of Chapter 1 (under the title *Science and Evidence -- An Introduction to the Philosophy of Statistics*) and published by University of Nagoya Press, 2012.

(edited with Steven Orzack) *Adaptationism and Optimality*, Cambridge University Press, 2001.

(with David S. Wilson) *Unto Others – The Evolution and Psychology of Unselfish Behavior*, Harvard University Press, 1998; Spanish edition, Siglo Veintiuno de España Editores, 2000; Korean edition, Seoul National University Press, 2013; Chinese edition, Zhejiang University Press, 2020.

From a Biological Point of View – Essays in Evolutionary Philosophy. Cambridge University Press, 1994.

Philosophy of Biology, Westview Press (in UK: Oxford University Press), 1993; Routledge, 2nd edition, 2000; Spanish edition (Allianza, 1996); Chinese edition (2000); Korean edition (Chul Hak Kwa Hyun Sil Sa Publishing Co., 2004); Japanese edition (translated by Yuichi Amitani, Shunju Sha Publishing Co., 2009); Turkish edition (Imge, 2009). Persian edition of chapters 1 and 2 (Taha Publications, 2021).

(with Erik Wright and Andrew Levine) *Reconstructing Marxism – Essays on Explanation and the Theory of History*, Verso Press, 1992; Portuguese edition, 1993.

Core Questions in Philosophy. Macmillan 1990; Prentice Hall 2nd edition 1995; Pearson Publishers 3rd edition 2000; 4th edition 2005; 5th edition 2009, 6th edition 2013; Routledge/Taylor&Francis 7th edition 2020, 8th edition 2021, 9th edition (co-authored with Joel Velasco) 2025. Translated into Persian by Reza Ya'aghoubi and published by Kargadan, 2024.

Reconstructing the Past – Parsimony, Evolution, and Inference. Bradford/MIT Press, 1988. 1st Japanese edition, Souju Publishers, Tokyo, 1996; 2nd Japanese edition (translated by Nobuhiro Minaka), Keiso Publishing Company, Tokyo, 2010.

The Nature of Selection – Evolutionary Theory in Philosophical Focus. Bradford/MIT Press, 1984; 2nd edition, University of Chicago Press, 1993.

(edited) *Conceptual Issues in Evolutionary Biology – An Anthology*, Bradford/MIT Press, 1984; 2nd edition 1993; 3rd edition 2006.

Simplicity, Oxford University Press, 1975.

B. Papers

305. “Natural Selection, Fitness, and Adaptation.” In Grant Ramsey and Alejandro Fabregas-Tejada (eds.) *The New Cambridge Companion to the Philosophy of Biology*, in preparation.
304. (with Philip Gasper and Abiral Chitraker Phnuyal) “Richard Lewontin – Biologist, Philosopher, Marxist.” In preparation.
303. “Ockham’s Razor in Cognitive Science.” In Colin Klein (ed.) *Open Encyclopedia of Cognitive Science*, in preparation.
302. (with David S. Wilson) “Defining and Evaluating Levels of Selection,” in preparation.
301. (with Hayley Clatterbuck) “Lloyd Morgan’s Good Argument for his Canon.” *Belgrade Philosophical Annual 2025 – Special Issue on Darwin and Darwinisms*, forthcoming.
300. (with Matthew J. Maxwell) “Retrospective and Prospective Comparisons of Causal Influence,” submitted.
299. (with Matthew J. Maxwell) “When does Drift Dominate Selection? A Zeroing-Out Criterion,” submitted.
298. “Population Thinking, Evolutionary Theory, and Aristotelian Natures.” In Neil Roughley (ed.), *Routledge Companion to the Philosophy of Human Nature*, forthcoming.
297. “Retrodiction in Evolutionary Genomics – A Philosophical Perspective.” In Gustavo Caetano-Anollés (ed.), *Evolutionary Genomics - Methods in Molecular Biology - Springer Nature*, forthcoming.
296. (with William Roche) “Inference to the Best Explanation, Bayesianism, and the Screening-Off Challenge - A Critical Review.” *Journal for General Philosophy of Science*, 2025,
295. (with Brian McLoone and Steven Orzack) “What is the Epistemic Status of Derivational Robustness?” *European Journal for Philosophy of Science*, 2025, 15(46) <https://doi.org/10.1007/s13194-025-00673-1>.
294. “Thoughts on Jun Otsuka’s *Thinking About Statistics*.” *Japanese Journal of Philosophy*, 2024, 3(37), pp. 1-11.
293. (with Connor Hulst, Richard Francis, Edward Clint, Winter Smith, Theodore Garland Jr., and Justin Rhodes) “Cumulative Evidence Provides Little Support that Sex Differences in Spatial Navigation are Evolutionary Adaptations.” *Royal Society Open Science*, 2024, 11, 231532.
292. “Darwin’s Model of Sex Ratio Evolution in the First Edition of *Descent of Man* and His Mysterious Retraction in the Second.” In M. Veuille (ed.), *Sex, Gender, Ethics and the Darwinian Evolution of Mankind - 150 years of Darwin’s Descent of Man*. Routledge, 2024, pp. 118-126.
291. “Realismo, Empirismo, Strumentalismo – Cio che possiamo imparare dalla legge di verosimiglianza e dall’ AIC.” In Raffaella Campaner and Carlo Gabbani (eds.). *Realismo e Antirealismo nelle Scienze*. Carocci Editore, 2023, pp. 266-272. English version “Realism, Empiricism, and Instrumentalism – Learning from the Law of Likelihood and AIC.” <https://philpapers.org/rec/SOBREI>.
290. “Behaviorism and Blackbox Inference – A Reply to Eric Charles and Nick Thompson.” *Behavior and Philosophy*, 2022, 49, pp. 88-90.
289. “Philosophy in Science – Some Personal Reflections.” *Philosophy of Science*, 2022, 89(5), pp. 899-907.
288. (with Matthew J. Maxwell) “Gradualism, Natural Selection, and the Randomness of Mutation – Fisher, Kimura, Orr, and Connecting the Dots,” *Biology and Philosophy*, 2023, 38(2), pp. 1-22.
287. “Parsimony Arguments in Science and Metaphysics – Their Connection with Fundamentality, Unification,

- and Epistemological Holism.” In O. Shenker, M. Hemmo, S. Ioannidis, and G. Vishne (eds.), *Levels of Reality – A Scientific and Metaphysical Investigation – Jerusalem Studies in Philosophy and History of Science*, Springer, 2022, pp. 229-260.
286. “Richard Lewontin – A Life-Changer.” *Biological Theory*, 2021,16, pp. 257–267.
285. (with William Roche) “Purely Probabilistic Measures of Explanatory Power – a Critique.” *Philosophy of Science*, 2023, 90(1), pp. 129-149
284. (with Jonathan Cohen) “Interpolating Decisions.” *Australasian Journal of Philosophy*, 2023, 101(2), pp. 327-339.
283. “A Theory of Contrastive Causal Explanation and the Explanatoriness of Deterministic and Probabilistic Hypotheses.” *European Journal for Philosophy of Science*, 2020, 10(34) <https://doi.org/10.1007/s13194-020-00299-5>
282. “Infectious Disease and the Evolution of Virulence.” *Auxiliary Hypotheses* (a blog hosted by *British Society for the Philosophy of Science*), June 8, 2020, <http://www.thebsps.org/auxhyp/evolution-of-virulence-sober/>.
281. “Natural Selection, Behavioral Conditioning, and the Problem of the First Instance – Comments on Terry Smith’s Paper.” *Behavior and Philosophy*, 2020, 48: 5-9.
280. “A.W.F. Edwards on Phylogenetic Inference, Fisher’s Theorem, and Race.” *Quarterly Review of Biology*, 2020, 95(2), pp. 125-129.
279. (with Ethan Bier) “CRISPR Gene Drive and the War against Malaria.” *American Scientist*, 2020, 108, pp. 162-169.
278. (with William Roche) “Disjunction and Distality – The Hard Problem for Probabilistic Theories of Mental Content.” *Synthese*, 2021, 198: 7197-7230.
277. (with William Roche) “Hypotheses that Attribute False Beliefs – A Two-Part Epistemology (Darwin+Akaike).” *Mind and Language*, 2021, 36: 664–682.
276. “Fitness and the Twins.” *Philosophy, Theory, and Practice in Biology*, 2020, 12(1): 1-13.
275. (with William Roche) “Inference to the Best Explanation and the Screening-Off Challenge.” *Revista Teorema*, 2019, 38(3): 121-142.
274. “Histories, Dynamical Laws, and Initial Conditions – Invariance Under Time-Reversibility and its Failure in Markov Processes, with Application to the Second Law of Thermodynamics and the Past Hypothesis.” *Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics*, 2020, 69: 26-31.
273. (with Martin Barrett) “The Requirement of Total Evidence – a Reply to Epstein’s Critique.” *Philosophy of Science*, 2020, 87: 191-203.
272. (with William Roche) “Observation Selection Effects and Discrimination Conduciveness.” *Philosophical Imprint*, 2019, 19(40): 1-26.
271. (with Lucie Laplane, Paolo Mantovani, Ralph Adolphs, Hasok Chang, Alberto Mantovani, Margaret McFall-Ngai, Carlo Rovelli, and Thomas Pradeu). “Why Science Needs Philosophy.” *Proceedings of the National Academies of Science USA*. March 5, 2019, 116(10): 3948-3952.
270. (with David Schwartz) “What is Relative Plausibility?” *International Journal of Evidence and Proof*, 2019, <https://doi.org/10.1177/1365712718816259>.
269. “Methodological Behaviorism, Causal Chains, and Causal Forks.” *Behavior and Philosophy*, 2017, 45: 22-26.

- 267-8. “Fine-Tuning is not Evidence that God exists” and “A Reply to Robin Collins’s ‘Fine-Tuning is Evidence that God exists’” in M. Peterson and R. VanArragon (eds.), *Contemporary Debates in Philosophy of Religion*, Wiley-Blackwell, 2nd edition, 2019, pp. 37-48 and pp. 50-54.
266. “Teleological Argument.” In S. Goetz and C. Taliaferro (eds.), *Wiley-Blackwell Encyclopedia of Philosophy of Religion*, 2021.
265. (with Paula Gottlieb) “Aristotle on ‘Nature does Nothing in Vain.’” *Hopos – The Journal of the International Society for the History of Philosophy of Science*, 2017, 7: 246-271.
264. (with David Schwartz) “The Conjunction Problem and the Logic of Jury Findings.” *William & Mary Law Review*, 2017, 59(2): 619-672.
263. “The Arbitrary Prudentialism of Pascal’s Wager and How to Overcome It by Using Game Theory.” In P. Bartha and L. Pasternack (eds.), *Essays on Pascal’s Wager*, Cambridge University Press, 2018, pp. 225-235.
262. (with William Roche) “Is Explanatoriness A Guide to Confirmation? A Reply to Climenhaga.” *Journal for General Philosophy of Science*, 2017, 48: 581-590.
261. “Replies to Reviews by Kristin Andrews, Gordon Belot, and Patrick Forber of *Ockham’s Razors – A User’s Manual*.” *Metascience*, 2016, 25(3): 393-403.
260. (with Mehmet Elgin) “Popper’s Shifting Appraisal of Evolutionary Theory.” *Hopos – The Journal of the International Society for the History of Philosophy of Science*, 2017, 7: 31-55.
259. “Interview with Richard Marshall.” *3 A.M. Magazine*, October 9, 2016, <http://www.3ammagazine.com/3am/biological-point-view/>
258. “Why Is Simpler Better?” *Aeon*, May 3, 2016.
257. “Atheism and the Methods of Science.” In Graham Oppy (ed.), *Blackwell Companion to Atheism and Philosophy*. Blackwell, 2019, pp. 291-303.
256. (with William Roche) “Explanation = Unification? A New Criticism of Friedman’s Theory and a Reply to an Old One.” *Philosophy of Science*, 2017, 84: 1-24.
255. “A Bayesian Double Negative — A Critique of Hume’s Treatment of the Design Argument in the *Dialogues Concerning Natural Religion* and of the Design Argument Itself.” In K. Williford (ed.), *Essays on Hume’s Dialogues Concerning Natural Religion*. Routledge, 2024, pp 47-70.
254. “Can Atheists Believe in Miracles? Can Theists Reject Them?” <http://www.slate.com/bigideas/are-miracles-possible/essays-and-opinions/elliott-sober-opinion>. *Slate*, July 16, 2015.
253. “Is the Scientific Method a Myth?” *Mètode Science Studies Journal*, 2015, 5: 195-199. Italian translation in *MicroMega*, 2016, 6 : 141-150.
252. (with Olav Vassend and Branden Fitelson) “The Philosophical Significance of Stein’s Paradox.” *European Journal for the Philosophy of Science*, 2017, 7: 411-433.
251. (with Mike Steel) “Similarities as Evidence for Common Ancestry – A Likelihood Epistemology.” *British Journal for the Philosophy of Science*, 2017, 68: 617–638.
250. (with Mike Steel) “How Probable is Common Ancestry According to Different Evolutionary Processes?” *Journal of Theoretical Biology*, 2015, 373: 111-116.
249. (with William Roche) “Explanatoriness and Evidence – A reply to McCain and Poston.” *Thought – A Journal of Philosophy*, 2014, 3: 193-199.

248. “Precis of *Did Darwin Write the Origin Backwards?*” and “Replies to Three Commentators (Jean Gayon, Tim Lewens, Samir Okasha).” *Philosophical Studies*, 2015, 172: 799-802 and 829-840.
247. (with Mehmet Elgin) “Causal, *A Priori* True, and Explanatory – A Reply to Lange and Rosenberg.” *Australasian Journal of Philosophy*, 2015, 93: 167-171.
246. (with William Roche) “Explanatoriness is Evidentially Irrelevant, or Inference to the Best Explanation meets Bayesian Confirmation Theory.” *Analysis*, 2013, 73: 659-668.
245. (with Mike Steel) “Time and Knowability in Evolutionary Processes.” *Philosophy of Science*, 2014, 81: 537-557.
244. “Two Cornell Realisms – Moral and Scientific.” *Philosophical Studies*, 2015, 172: 905-924.
243. “Remarkable Facts Ending Science as We Know It – A Review of Thomas Nagel’s *Mind and Cosmos*.” *Boston Review*, October 15, 2012, pp. 50-55.
242. “Evolutionary Theory, Causal Completeness, and Theism – the Case of ‘Guided’ Mutation.” In D. Walsh and P. Thompson (eds.), *Evolutionary Biology – Conceptual, Ethical, and Religious Issues*. Cambridge University Press, 2014, pp. 31-44.
241. (with Hayley Clatterbuck and Richard Lewontin) “Selection Never Dominates Drift (nor Vice Versa).” *Biology and Philosophy*, 2013, 28: 577-592.
240. “Trait Fitness is not a Propensity, but Fitness Variation Is.” *Studies in History and Philosophy of Biological and Biomedical Sciences*, 2013, 44: 336-341.
239. (with Martin Barrett, Hayley Clatterbuck, Michael Goldsby, Casey Helgeson, Brian McLoone, Trevor Pearce, Reuben Stern, and Naftali Weinberger), “Puzzles for ZFEL – McShea and Brandon’s Zero Force Evolutionary Law.” *Biology and Philosophy*, 2012, 5: 723-735.
238. (with Edward Clint, Theodore Garland, and Justin S. Rhodes), “Male Superiority in Spatial Navigation – Adaptation or Side-effect?” *Quarterly Review of Biology*, 2012, 87: 289-313.
237. (with Elisabeth Lloyd and David S. Wilson), “Evolutionary Mismatch – A Basic Tutorial.” *Evolutionary Applications*, 2011, 2-4; reprinted in *This View of Life* 2024.
236. (with Larry Shapiro) “Against Proportionality.” *Analysis*, 2012, 72: 89-93.
235. Precis of *Evidence and Evolution* and responses to commentaries by Branden Fitelson, Roger Sansom, and Sahotra Sarkar. *Philosophy and Phenomenological Research*, 2011, 83: 661-665, 692-704.
234. “Anthropomorphism, Parsimony, and Common Ancestry.” *Mind and Language*, 2012, 27: 229-238.
233. (with Michael Steel) “Screening-Off and Causal Incompleteness – A No-Go Theorem.” *British Journal for the Philosophy of Science*, 2013, 64: 513-550.
232. (with Jordan Ellenberg) “Objective Probabilities in Number Theory.” *Philosophia Mathematica*, 2011, 19: 308-322.
231. (with David S. Wilson) “*Adaptation and Natural Selection* Revisited.” *Journal of Evolutionary Biology*, 2011, 24: 462–468.
230. (with Michael Steel) “Entropy Increase and Information Loss in Markov Models of Evolution.” *Biology and Philosophy*, 2011, 26: 223-250.

229. "A Priori Causal Models of Natural Selection." *Australasian Journal of Philosophy*, 2011, 89: 571-589.
228. "Natural Selection, Causality, and Laws: What Fodor and Piattelli-Palmarini Got Wrong." *Philosophy of Science*, 2010, 77: 594-607.
227. (with Mehmet Elgin) "Laws in Biology: A Reply to DesAutels' Critique of Sober and Elgin."
226. (with Malcolm Forster) "AIC Scores as Evidence – A Bayesian Interpretation." In Malcolm Forster and Prasanta Bandyopadhyay (eds.), *The Philosophy of Statistics*, Kluwer, 2011, pp. 535-549.
225. (with Joel Velasco) "Testing for Treeness – Lateral Gene Transfer, Phylogenetic Inference, and Model Selection." *Biology and Philosophy*, 2010, 25: 675-687.
224. "Darwin y la selección de grupo." *Ludus Vitalis*, 2009, 17: 101-143.
223. "Why Methodological Naturalism?" In G. Auletta, M. LeClerc, and R. Martinez (eds.), *Biological Evolution -- Facts and Theories, A Critical Appraisal 150 Years after The Origin of Species*. Rome: Gregorian Biblical Press, 2011, pp. 359-378. Spanish translation: "¿Por qué el naturalismo metodológico?" In A. Barahona, E. Suarez, and J. Rheinberger (eds.), *Darwin – El Arte de Hacer Ciencia*. Universidad Nacional Autonoma de Mexico: Facultad de Ciencias, 2011, pp. 137-162.
222. "Did Darwin Write the *Origin* Backwards?" *Proceedings of the National Academy of Science USA*, 2009, 106: 10048-10055; Spanish translation (¿Escribió Darwin el *Origen* al revés?) in *Revista Filosofia Teorema*, 2009, 28: 45-69.
221. "Parsimony Arguments in Science and Philosophy – A Test Case for Naturalism_p." *Proceedings and Addresses of the American Philosophical Association*, 2009, 83(2): 117-155.
220. "Realism, Conventionalism, and Causal Decomposition in Units of Selection – Reflections on Samir Okasha's *Evolution and the Levels of Selection*." *Philosophy and Phenomenological Research*, 2011, 82: 221-231.
219. "Parsimony and Models of Animal Minds." In R. Lurz (ed.), *The Philosophy of Animal Minds*. Cambridge University Press, 2009, pp. 237-257.
218. "Reichenbach's Cubical Universe and the Problem of the External World." *Synthese*, 2011, 181: 3-21.
217. "A Philosopher Looks at the Units of Selection Problem – a Review of Samir Okasha's *Evolution and the Levels of Selection*." *Biosciences*, 2008, 58: 78-79.
216. "Intelligent Design, Irreducible Complexity, and Minds – A Reply to John Beaudoin." *Faith and Philosophy*, 2008, 25: 443-446.
215. "Absence of Evidence and Evidence of Absence – Evidential Transitivity in Connection with Fossils, Fishing, Fine-Tuning, and Firing Squads." *Philosophical Studies*, 2009, 143: 63-90. Reprinted in the *Philosopher's Annual*.
214. "Evolution without Naturalism." In J. Kvanvig (ed.), *Oxford Studies in Philosophy of Religion*, Oxford University Press, 2011, pp. 187-221.
213. "Fodor's *Bubbe Meise* Against Darwinism." *Mind and Language*, 2008, 23: 42-49.
212. (with Alan Attie, Ronald Numbers, Richard Amassino, Beth Cox, Terese Berceau, Thomas Powell, and Michael Cox) "Defending Science Education against Intelligent Design – a Call to Action." *Journal of Clinical Investigation* 2006, 16: 1134-1138.
211. "What's Wrong with Intelligent Design?" *Quarterly Review of Biology*, 2007, 82: 1-8. Translated into Polish as "Co jest nie takz inteligentnym Projektem,?" In K. Jodkowski (ed.), *Teoria Inteligentnego Pojektu - nowe rozumienie naukowości?* Warsaw, Poland: Wydawnictwo Megas, 2007, pp. 181-189. Reprinted in R. Pennock and

- M. Ruse (eds.), *But is it Science? The Philosophical Question in the Creation/Evolution Controversy*, New York: Prometheus Books, updated edition, 2009, pp.495-505.
210. "Empiricism." In S. Psillos and M. Curd (eds.), *The Routledge Companion to Philosophy of Science*, 2008, pp. 129-138.
209. "Émergence et Survenance." *Science et Avenir*, 2005, 143: 10-15.
208. (with Larry Shapiro) "Epiphenomenalism – The Do's and the Don'ts." In P. Machamer and G. Wolters (eds.), *Thinking about Causes*. University of Pittsburgh Press, 2007, pp. 235-264.
207. "Intelligent Design Theory and the Supernatural – the 'God or Extra-Terrestrials' Reply," *Faith and Philosophy*, 2007, 24: 72-82.
206. Review of James Woodward's *Making Things Happen*. *Metascience*, 2006, 15: 45-53.
205. "Evolutionary Theory and the Reality of Macro-Probabilities." In E. Eells and J. Fetzer (ed.), *The Place of Probability in Science*, Boston Studies in the Philosophy of Science, Springer, 2010, pp. 133-162.
204. "Coincidences and How to Think about Them," *European Philosophy of Science Association Proceedings (Amsterdam 2009)*, Springer, 2012, pp. 355-374.
203. "Parsimony and its Presuppositions." In V. Albert (ed.), *Parsimony, Phylogeny, and Genomics*, Oxford University Press. 2005.
202. "Is Drift a Serious Alternative to Natural Selection When it Comes to Explaining Adaptive Complexity?" In A. O'Hear (ed.), *Philosophy, Biology and Life*, Cambridge University Press, 2005.
201. "An Information-Processing Model of Privileged Access."
200. "It Had to Happen" (a review of Simon Conway Morris's *Life's Solution in a Lonely Universe*). *New York Times*, November 30, 2003, Book Review Section, p. 18.
199. (with David Wilson) "On Group Selection and Methodological Individualism – a Reply to Douglas Whitman." In R. Koppl (ed.), *Advances in Austrian Economics*, Elsevier, 2004, 7: 251-259.
198. "The Contest between Likelihood and Parsimony." *Systematic Biology*, 2004: 53: 6-16.
197. "Sex Ratio Theory, Ancient and Modern – An 18th Century Debate about Intelligent Design and the Development of Models in Evolutionary Biology." In J. Riskin (ed.), *Genesis Redux – Essays on the History and Philosophy of Artificial Life*, University of Chicago Press, 2007, pp. 131-162.
196. "A Modest Proposal – a Review of John Earman's *Hume's Abject Failure – the Miracles Argument*." *Philosophy and Phenomenological Research*, 2004, 118: 487-494.
195. "Likelihood, Model Selection, and the Duhem-Quine Problem." *Journal of Philosophy*, 2004, 101: 1-22.
194. "Intelligent Design is Untestable. What about Natural Selection?" In A. Zilhão (ed.), *Evolution, Rationality and Cognition - A Cognitive Science for the Twenty-First Century*. London, Routledge, pp. 17-39, 2005. Shorter version in P. Hajek, L. Valdes-Villanueva, and D. Westerstaahl (eds.), *Proceedings of the 11th Congress of the International Union for History and Philosophy of Science, Division of Logic, Methodology, and Philosophy of Science*. Elsevier, pp. 5-22, 2005.
193. "La Selection Naturelle." *Science et Avenir*. Avril/Mai 2003: 22-27.
- 190-192. "Altruism," "Natural Selection," and "Parsimony." In S. Sarkar and J. Pfeifer (eds.), *The Philosophy of*

Science – an Encyclopedia. pp. 8-11, 497-502, 531-538, Routledge, 2006.

189. (with David Sloan Wilson) “Perspectives and Parameterizations – A Commentary on Benjamin Kerr and Peter Godfrey-Smith’s ‘Individualist and Multi-Level Perspectives on Selection in Structured Populations’.” *Biology and Philosophy*, 2002: 529-37.

188. (with Christopher Hitchcock) “Prediction versus Accommodation and the Risk of Overfitting,” *British Journal for the Philosophy of Science*, 2004, 55: 1-34.

187. “Intelligent Design and Probability Reasoning.” *International Journal for the Philosophy of Religion*, 2002, 52: 65-80.

186. (with David S. Wilson) “Precis of *Unto Others*” and “Replies to Commentators (Barrett and Godfrey-Smith, Dennett, Jamieson, and Skyrms),” *Philosophy and Phenomenological Research*, 2002, 65: 681-684 and 711-727.

185. “Two Uses of Unification.” In F. Stadler (ed.), *The Vienna Circle and Logical Empiricism -- Vienna Circle Institute Yearbook 2002*. Kluwer, 2003, pp. 205-216.

184. (with Mehmet Elgin) “Cartwright on Explanation and Idealization.” *Erkenntnis*, 2002, 57: 441-50.

183. “Comparative Psychology Meets Evolutionary Biology – Morgan’s Canon and Cladistic Parsimony.” In L. Daston and G. Mitman (eds.), *Thinking with Animals – New Perspective on Anthropomorphism*. Columbia University Press, 2005, pp. 85-99.

182. “Evidence and Value Freedom.” In H. Kinkaid, J. Dupre’, and A. Wylie (eds.), *Value-Free Science – Ideal or Illusion?* Oxford University Press, 2007, pp. 109-119.

181. (with Michael Steel) “Testing the Hypothesis of Common Ancestry,” *Journal of Theoretical Biology*, 2002, 218: 395-408.

180. (with Christopher Lang and Karen Strier), “Are Human Beings Part of the Rest of Nature?” *Biology and Philosophy*, 2002, 17: 661-671. Reprinted in G. Boniolo and G. De Anna (eds.), *Evolutionary Ethics and Contemporary Biology*, Cambridge University Press, 2006, pp. 43-55.

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1. July, 1974. "Mental Representation." Colloquium, University of Wisconsin-Madison Philosophy Department.
2. February, 1975. "Mental Representation." University of Wisconsin-Madison Psychology Department.
3. January, 1976. "Computability and Cognition" at the University of Wisconsin-Madison Philosophy Department Colloquium.
- 4-5. November, 1976. "The Descent of Mind: Information, Fitness and the Evolutionary Origins of Rationality" at the University of Chicago Philosophy Department Colloquium, and at the University of Wisconsin-Madison Philosophy Department Colloquium.
6. April, 1977. "The Art and Science of Clinical Judgment - An informational Approach," Symposium on Philosophy and Medicine at the UCLA Medical School.
7. September, 1977. "Psychological Reality of Grammar" at the University of Wisconsin-Madison Philosophy Department Colloquium.
8. February, 1978. "Realism and Independence" at University of Wisconsin-Madison Philosophy Department Colloquium.
9. November, 1978. "Evolution, Population Thinking, and Essentialism" at a University of Wisconsin-Madison Philosophy Department Colloquium.
10. January, 1979. "Simplicity and the Task Specificity of Language Acquisition" at a conference at Stanford on linguistics and philosophy.
11. October, 1979. "Group Selection and the Holism / Individualism Controversy", University of Wisconsin-Madison Zoology Department Colloquium.
12. November, 1979. "Revisability, A Priori Truth, and Evolution" at University of Wisconsin-Madison Philosophy Department Colloquium.

13. December, 1979. Commentator on a paper at Eastern APA Meetings.
14. April, 1980. "The Evolution of Rationality" at Society for Philosophy and Psychology Annual Meetings, University of Michigan, Ann Arbor.
15. April, 1980. "Evolutionary Theory and the Ontological Status of Properties" at University of Wisconsin-Madison Department Colloquium.
16. September, 1980. "What is a Unit of Selection?" Population Genetics Colloquium, Harvard University.
17. September, 1980. "Holism, Individualism, and the Units of Selection" Biology and Philosophy Departments, Amherst College.
18. October, 1980. "Holism, Individualism, and the Units of Selection" symposium paper at Biennial Meeting of Philosophy of Science Association, Toronto.
19. November, 1980. "Putting the Function Back Into Functionalism", Philosophy Department Colloquium, Tufts University.
20. December, 1980. "Models of Group Selection", Seminar on Evolutionary Theory, Harvard University.
21. April, 1981. "Parsimony Arguments in Evolutionary Theory", Systematics and Biogeography Colloquium, Harvard University.
22. May, 1981. "Panglossian Functionalism and the Philosophy of Mind" at Workshop on Naturalistic Epistemology, University of Pittsburgh.
23. September, 1981. "Natural Selection: The Logic of a Causal Concept," Philosophy Department Colloquium, University of Wisconsin-Madison.
24. October, 1981. "The Principle of the Common Cause in Cladistics", Hennig Society Meetings, Ann Arbor, Michigan.
25. October, 1981. "Force and Disposition in Evolutionary Theory", Thyssen Workshop, Wales, Great Britain.
26. December, 1981. "Reifying the Selfish Gene" at History and Philosophy of Science Department Colloquium, University of Indiana, Bloomington.
27. January, 1982. "Causation and Natural Selection", Philosophy Department Colloquium, Temple University.
28. March, 1982. "Selection Of and Selection For", University of Chicago Conference on Persistent Issues in Evolutionary Theory.
29. April, 1982. Symposium on Philosophy of Biology, University of Cincinnati.
30. May, 1982. "Speciation and Extinction", Species Working Group, Committee on Public Policy, University of Maryland.
31. June, 1982. "Darwin's Evolutionary Concepts" at Conference on the Darwinian Heritage. Florence, Italy.
32. July, 1982. "The Units of Selection" at NEH Summer Workshop on Philosophy of Biology, Cornell University, Ithaca, N.Y.
33. October, 1982. "Common Cause Explanation" to University of Wisconsin-Madison Philosophy Department Colloquium.

34. October, 1982, Symposium Commentator on Philosophy of Biology. Philosophy of Science Association, Philadelphia.
35. October, 1982. "Likelihood Methods in Phylogenetic Inference" to Faculty Evolution Discussion Group, University of Wisconsin-Madison.
36. November, 1982. "Force and Disposition in Evolutionary Theory" at History and Philosophy of Science Colloquium, University of Maryland at College Park.
37. November, 1982. "Likelihood and Common Cause Explanation" at Hennig Society, III, University of Maryland.
38. December, 1982. Symposium Commentator on the Species Problem (paper by Philip Kitcher). Eastern APA, Baltimore.
39. April, 1983. "Evolutionary Explanation of Behavior" at University of Wisconsin Center System Philosophy Department Meeting. Madison.
- 40-41. October, 1983, "Reifying the Selfish Gene" and "Common Cause Explanation" at University of California, Davis.
42. October, 1983. "Species Selection" at Faculty Discussion Group on Evolution, UW-Madison.
43. November, 1983. "Darwin, Selection, and Improvement" at History of Science Colloquium, UW-Madison.
- 44-45. January, 1984. "Reifying the Selfish Gene" and "Common Cause Explanation" at University of Arizona, Tucson and Arizona State University, Tempe.
46. February, 1984. "Reifying the Selfish Gene" at U.W. Madison, Botany Colloquium.
47. March, 1984. "Genic Selection" at U.W.-Madison Entomology Colloquium.
48. April, 1984. "Reifying the Selfish Gene" at University of California, Berkeley Paleobiology Colloquium.
49. April, 1984. "Reifying the Selfish Gene" at Tufts University Philosophy Colloquium.
50. July, 1984. "Parsimony without Hierarchy" at joint meetings of the Linnaean Society, the Systematics Association, and the Hennig Society in London, England.
51. October, 1984. "What is Cladism?" talk to faculty discussion group on evolution. University of Wisconsin, Madison.
52. October, 1984. "Two Concepts of Cause" invited symposium address at Biennial Meetings of Philosophy of Science Association, Chicago, Ill.
53. November, 1984. "Two Concepts of Cause". Philosophy Colloquium. University of Wisconsin, Madison.
54. December, 1984. Commentator on a symposium paper on philosophy of biology given by Robert Brandon at the American Philosophical Association Eastern Meetings, New York.
55. January, 1985. "Parsimony, Units of Selection, and Phylogenetic Inference," Biology Colloquium, University of Michigan, Ann Arbor.
56. March, 1985. "Methodological Behaviorism, Evolution, and me Theory". Invited symposium paper at Pacific APA, San Francisco, Cal.

57. April, 1985. "Reductionism and the Theory of Evolution." Invited symposium paper at Western APA Meetings, Chicago.
58. April, 1985. "What is Adaptationism". Invited paper at Conference in Evolution and Information, Stanford University, Palo Alto, Cal.
59. April, 1985. "Comments on Maynard Smith's 'How to Model Evolution'", Conference on Evolution and Information, Stanford University, Palo Alto, Cal.
60. May, 1985. "Two Concepts of Cause" at Philosophy Department Colloquium, University of Minnesota.
61. May, 1985. "Methodological Behaviorism, Evolution, Game Theory." Symposium paper at Society for Philosophy and Psychology Annual Meeting, Toronto.
- 62-65. August, 1985. "Methodological Behaviorism, Evolution, and Game Theory" Philosophy Colloquia at Sydney University, Wollongong University, LaTrobe University, Australia, National University.
66. August, 1985. "The Tautology Problem". Biology Colloquium at Wollongong University.
- 67-68. August, 1985. "Two Concepts of Cause". Philosophy Colloquia at Melbourne University, University of Adelaide.
- 69-70. August, 1985. "Reifying the Selfish Gene". Philosophy Colloquia at Wollongong University, University of Adelaide.
71. December, 1985. "Natural Selection and the Social Sciences." Conference on biological models of human action. University of Palma de Mallorca, Spain.
72. February, 1986. "Apportioning Causal Responsibility". University of Wisconsin, Madison Philosophy Colloquium.
- 73-74. January, 1986. "Scientific Realism and Empiricism". NEH Colloquium on the topic "Is there a new consensus in the philosophy of science"; "Units of Selection." Philosophy of biology seminar. Both at University of Minnesota, Minneapolis.
75. May, 1986. "Apportioning Causal Responsibility." Conference on Explanation and Causation, Virginia Polytechnic and State University, Blacksburg, Virginia.
76. July, 1986. "Causal Factors, Causal Inference, Causal Explanation." Joint Sessions of the Aristotelian Society and the Mind Association. London, England.
77. October, 1986. "Apportioning Causal Responsibility" at University of California, Irvine, philosophy colloquium.
78. October, 1986. "Realism and Scientific Inference" at Workshop on Realism, Philosophy of Science Association Biennial Meeting. Pittsburgh, Pa.
79. October, 1986. "Methodological Individualism and Units of Selection" at Sociology Department Colloquium, University of Wisconsin, Madison.
80. November, 1986. "Parsimony and Phylogenetic Inference". Colloquium in Anatomy Department, University of Wisconsin-Madison.
81. December, 1986. "Evolutionary Altruism and Psychological Egoism" at Symposium on Evolutionary Biology, Miami University, Oxford, Ohio.

82. January, 1987. "The Anatomy of Egoism" at Philosophy Colloquium, University of Wisconsin-Madison.
83. February, 1987. "What Is Evolutionary Altruism?" at Boston University Colloquium for the Philosophy of Science.
84. March, 1987. "Phylogeny and the Principle of the Common Cause," at APA Pacific Division Meetings, San Francisco, California.
85. March, 1987. "What Is Evolutionary Altruism?", University Lecture at McGill, Montreal, Canada.
86. March, 1987. "The Anatomy of Egoism", Philosophy Colloquium, Boston University, Boston, Massachusetts.
- 87-88. May, 1987. "What Is Evolutionary Altruism?" Conference on Biology and Philosophy, University of Alberta and at History and Philosophy of Science Colloquium, Northwestern University.
89. August, 1987. "Evolutionary Altruism". Invited symposium at International Congress for Logic, Methodology, and Philosophy of Science. Moscow, USSR.
90. October, 1987. "The Principle of the Common Cause". At Chapel Hill Colloquium on Philosophy. University of North Carolina.
91. February, 1988. "Contrastive Empiricism". At UW, Madison Conference in Memory of Joan Kung.
- 92-96. March/April 1988. "Likelihood and the Problem of Phylogenetic Inference", "Three Theorems About a Branching Process," "The Backward Inequality", "The Units of Selection Controversy: Conceptual Issues," and "A Conceptual Question about Vicariance Biogeography", at Zoology Museum, University of Michigan, Ann Arbor.
97. May, 1988. "Group Selection and the Analysis of Variance", at Evolution Seminar, Michigan State University.
98. July, 1988. "Genetic Bookkeeping and the Theory of Evolution". At National Science Foundation Workshop on Philosophy of Biology, Ohio State University.
99. September, 1988. "What Is Evolutionary Altruism?" Biology Department Colloquium on the Study of Behavior. University of Colorado, Boulder.
100. September, 1988. "The Anatomy of Egoism." Philosophy Department Colloquium, University of Wisconsin, Milwaukee.
101. September, 1988. "Probability and the Surprise Examination Problem." Philosophy Department Colloquium, University of Wisconsin, Madison.
102. October, 1988. "Evolutionary Altruism". Conference on Pattern and Process in Evolving Systems, Marquette University.
- 103-106. March, 1989. "Aristotle's Natural State Model," "Likelihood and the Design Argument," "What Is Evolutionary Altruism?" and "What Is Psychological Egoism?" at St. Mary's College, Maryland.
107. March, 1989. "Parsimony and Phylogenetic Inference." Vertebrate Paleontology Seminar, University of Wisconsin, Madison.
108. April, 1989. "What Is Evolutionary Altruism?" Biology Colloquium, Rutgers University, Newark, New Jersey.
- 109-110. May, 1989. "Parsimony and Phylogenetic Inference" and "A Model Branching Process" at Philosophy and Biology Conference, Rice University.

111. June, 1989. "Parsimony and Phylogenetic Inference," Society for History, Philosophy, and Social Studies in Biology Biennial Meeting, University of Western Ontario.
112. September, 1989. "Let's Razor Ockham's Razor" at Royal Institute of Philosophy Conference on Explanation. Glasgow, Scotland.
113. October, 1989. "Contrastive Empiricism" at Philosophy Colloquium, Cornell University.
114. November, 1989. "Darwin's Nature." Herbert Spencer Lecture, Oxford University.
115. November, 1989. "What is Psychological Egoism?" Philosophy Colloquium, University College, Cardiff, Wales.
116. November, 1989. "Let's Razor Ockham's Razor" at Philosophy Colloquium, Johns Hopkins University.
117. January, 1990. "Parsimony and Phylogenetic Inference," Systematics Seminar, American Museum of Natural History, New York.
118. February, 1990. "Let's Razor Ockham's Razor," Philosophy Colloquium, University of Oklahoma, Norman.
119. February, 1990. "Learning from Functionalism -- Prospects for Strong AL." Conference on Artificial Life. Sante Fe Institute for Nonlinear Studies.
120. February, 1990. "What is Evolutionary Altruism?" Evolution Discussion Group, University of Wisconsin, Madison.
121. April, 1990. "Organisms, Individuals, and Units of Selection." Boston University Colloquium in the Philosophy of Science.
122. May, 1990. "Evolutionary Altruism, Psychological Egoism, and Morality: Disentangling the Phenotypes." 13th Annual Spring Systematics Symposium, Field Museum, Chicago.
123. May, 1990. "Darwin the Subversive." Faculty/Alumni Symposium. University of Pennsylvania.
- 124-126. May, 1990. "What is Psychological Egoism?", "Let's Razor Ockham's Razor," and "Likelihood and Phylogenetic Inference." Philosophy Department, Department of Ecology and Evolution, University of California, Davis.
- 127-128. June, 1990. "Parsimony, Likelihood, and Phylogenetic Inference" and "What is a Unit of Selection?" at Systematics and Evolutionary Biology Colloquia, Smithsonian Institution, Washington, DC.
- 129-134. July/August, 1990. "What is Psychological Egoism?", "Contrastive Empiricism," "A Model Branching Process," and "What is Evolutionary Altruism?", "Let's Razor Ockham's Razor," and "How to Model Cultural Evolution," University of Otago, Otago, New Zealand.
135. July, 1990. "What is Psychological Egoism?" Philosophy Department, University of Auckland, Auckland, New Zealand.
136. July, 1990. "Contrastive Empiricism," Philosophy Department, Victoria University, Wellington, New Zealand.
137. August, 1990. "Let's Razor Ockham's Razor." Philosophy Department, University of Hawaii, Honolulu, Hawaii.
138. September, 1990. "Let's Razor Ockham's Razor." Philosophy Department, Washington University, St. Louis.
139. October, 1990. "Let's Razor Ockham's Razor." Philosophy Department, University of Vermont.

140. November, 1990. "Let's Razor Ockham's Razor." Philosophy Department, University of Wisconsin-Madison.
141. February, 1991. "Parsimony, Units of Selection, and Phylogenetic Inference." Department of Ecology and Evolution, University of Arizona.
142. April, 1991. "Why Evolution May Have Made Us Psychological Altruists." Philosophy Department, Middlebury College.
143. July, 1991. (with Steven Orzack) "ESS Models and the Long Run Test of Adaptationism." International Society for History, Philosophy, and Social Studies of Biology. Northwestern University.
144. July, 1991. "Using Philosophy of Science in College Biology Teaching." Bioquest Curriculum Development Workshop. Beloit College.
145. August, 1991. "Parsimony Arguments in Evolutionary Theory." School of Animal Ecology. University of Uppsala, Uppsala, Sweden.
146. August, 1991. "Mathematics and Indispensability." UW Philosophy Department Summer Discussion Group.
147. September, 1991. "When Natural Selection and Culture Conflict." Conference on Biology, Ethics, and the Origins of Life. Colorado State University, Fort Collins.
- 148-50. October, 1991. "Why Evolution May Have Made Us Psychological Altruists." Philosophy Colloquia, Rutgers University and University of Wisconsin, Madison. Social Psychology Colloquium, University of Wisconsin, Madison.
- 151-52. January, 1992. "When is it Rational to be Irrational (Pascal's Wager Then and Now)?" and "Why Evolution May Have Made Us Psychological Altruists." Honor's College and Philosophy of Science Colloquium, University of Pittsburgh.
- 153-54. March, 1992. "Indispensability and Mathematics" and "Did Evolution Make Us Psychological Egoists?" Lakatos Award Lectures. London School of Economics and Political Science.
155. March, 1992. "Indispensability and Mathematics" at History and Philosophy of Science Colloquium, Cambridge University.
156. March, 1992. "On the Relation of History of Science and Philosophy of Science." History of Science Colloquium, University of Wisconsin, Madison.
- 157-59. April, 1992. "Indispensability and Mathematics" at Georgia State University; "Experimental Tests of Phylogenetic Inference Methods" and "Testing Adaptationism" at Emory University.
160. April, 1992. "Model Building in Population Biology." Ecology and Evolution Colloquium. University of Chicago.
161. June, 1992. (with Martin Barrett) "When and Why Does Entropy Increase?" Conference on Time's Arrow Today. University of British Columbia, Vancouver.
162. August, 1992. "Individuality and Units of Selection." Dibner Institute Seminar on Units and Levels of Organization in Biology, Marine Biological Laboratory, Woods Hole, Massachusetts.
163. October, 1992. "Why Not Solipsism?" At History and Philosophy of Science Colloquium, University of Minnesota, Minneapolis.

- 164-5. November, 1992. "Why Not Solipsism?" at Philosophy Department Colloquium and "Phylogenetic Inference" at Systematics Colloquium, University of Michigan, Ann Arbor, Michigan.
166. December, 1992. "Review of Desmond and Moore's Darwin." History of Science Brownbag. University of Wisconsin, Madison.
167. December, 1992. "Do Cultures Evolve?" Invited symposium presentation at American Philosophical Association Meetings, Washington, DC.
168. February, 1993. "The Adaptive Advantage of Learning and A Priori Prejudice." Philosophy Department Colloquium, University of Wisconsin, Madison.
- 169-170. March, 1993. "The Adaptive Advantage of Learning and A Priori Prejudice" and "Why Not Solipsism?" Philosophy Department Colloquium, University of Miami, Coral Gables, Florida.
- 171-172. March, 1993. "Progress and Direction in Evolution" at a conference on "Creative Evolution?" and "The Adaptive Advantage of Learning and A Priori Prejudice" at the Philosophy Department, University of California, Los Angeles.
- 172-173. April, 1993. "The Adaptive Advantage of Learning and A Priori Prejudice" and "Parsimony, Phylogenetic Inference, and the Principle of the Common Cause" at Philosophy Department, University of Calgary and the Alberta Philosophical Association's Annual Meeting. Alberta, Canada.
- 174-175. May, 1993. "The Adaptive Advantage of Learning and A Priori Prejudice," Philosophy of Science Colloquium, University of Oslo, Oslo, Norway, and Philosophy Department, University of Lund, Lund, Sweden.
176. June, 1993. "Prospects for Sociobiology" at Conference on Evolution and the Human Sciences, Center for Philosophy of Science, London School of Economics. London, England.
177. August, 1993. "The Adaptive Advantage of Learning and A Priori Prejudice." Plenary Address at Human Behavior and Evolution Society Annual Conference. Binghamton, New York.
- 178-9. September, 1993. "The Primacy of Truth-Telling and the Evolution of Lying," Philosophy Colloquia at University of Wisconsin, Madison and at MIT.
- 180-2. October, 1993. "Prospects for Evolutionary Ethics", "The Primacy of Truth-Telling and the Evolution of Lying," and "The Adaptive Advantage of Learning and A Priori Prejudice" respectively at York, Queen's, and Guelph Universities, Ontario, Canada.
- 183-4. January, 1994. "Pascal's Wager" and "The Primacy of Truth-Telling and the Evolution of Lying," Philosophy Colloquia at University of Alabama, Birmingham.
185. February, 1994. "The Adaptive Advantage of Learning and A Priori Prejudice," Conference on Modeling Rational Agents, Simon Fraser University, Vancouver, Canada.
186. April, 1994. "The Primacy of Truth-Telling and the Evolution of Lying," Philosophy Colloquia at University of Pennsylvania.
- 187-188. June, 1994. "Parsimony and Predictive Equivalence" and "The Primacy of Truth-Telling and the Evolution of Lying" at Centre for the Philosophy of Science, London School of Economics.
189. September, 1994. "Pascal's Wager." Undergraduate Philosophy Club. University of Wisconsin, Madison.
190. October, 1994. "Group Selection" at the Behavior Interdisciplinary Seminar, University of Wisconsin, Madison.

- 191-2. January, 1995. "The Evolution of Psychological Altruism" at Arizona State University (Philosophy Department) and University of Arizona (Ecology and Evolutionary Biology).
193. February, 1995. "The Evolution of Psychological Altruism" at Philosophy Colloquium, University of Colorado.
194. February, 1995. "Parsimony and Predictive Equivalence." The Gail Stine Memorial Lecture. Philosophy Department, Wayne State University.
195. March, 1995. "The Evolution of Psychological Altruism." Conference on Trends in Evolutionary Theory. Venice, Italy.
196. April, 1995. "How are History and Philosophy of Science Related?" History of Science Brownbag, University of Wisconsin, Madison.
197. April, 1995. "The Evolution of Psychological Altruism." Conference on Evolutionary Psychology. Rutgers University.
198. April, 1995. "Separating Nature and Nurture." University of Maryland Conference on Genetic Approaches to the Explanation of Behavior.
- 199-201. May, 1995. "Evolution and Optimization" at the Institute for History and Philosophy of Science (Paris), "The Evolution of Psychological Altruism" at CREA (Paris), and "The Group Selection Controversy" at the University of Burgundy.
202. July, 1995. "Evolutionary and Psychological Altruism." Mind and Life Conference. Madison, Wisconsin.
203. September, 1995. "Natural Selection and Distributive Explanation." Philosophy Colloquium, North Illinois University, DeKalb, Illinois.
204. September, 1995. Visiting Distinguished Professor at St. Olaf College and Carleton College Retreat. Tofte, Minnesota.
205. November, 1995. "Morgan's Canon" at UW-Madison Philosophy Colloquium.
- 206-207. November, 1995. "Morgan's Canon" and "Optimality and Evolution" at the Council on Philosophic Exchange, SUNY, Brockport, NY.
- 208-210. December, 1995. "Morgan's Canon" at British Society for the Philosophy of Science and at Psychology Department, University of London; "Optimality and Evolution" at the About Biology series, LSE, London, England.
- 211-214. January, 1996. "The Structure of Evolutionary Theory," "The Units of Selection Problem," "Morgan's Canon," and "Evolution and Optimality" at the National Autonomous University, Mexico City.
- 215-217. February, 1996. "Evolution and Optimality" at University of Houston and at University of Texas at Austin; "To Give a Surprise Exam, Use Game Theory" at Texas A&M.
218. February, 1996. "Four Questions about Genetic Causation." Lecture Series on Genes and the Social Order, UW-Madison.
- 219-220. April, 1996. Invited symposium participant in author-meets-critics session on "Peter Godfrey-Smith's Complexity and the Function of Mind in Nature," Pacific APA, Seattle. "Morgan's Canon" at University of California, San Diego.
221. May, 1996. "Morgan's Cannon." At First International Conference on Philosophy of Science at the University of Vigo. Vigo, Spain.

- 222-223. July, 1996. "Evolution and Optimality" and "How to take Phylogeny into Account" at Dalhousie University, Halifax, Nova Scotia.
224. September, 1996. "To Give a Surprise Exam, Use Game Theory" at a Philosophy Department Colloquium Purdue University, Indiana.
225. October, 1996. "Morgan's Canon." Philosophy Department Colloquium, Brandeis University, Waltham, MA.
226. October, 1996. "Morgan's Canon" at Philosophy Department Colloquium, Bowling Green University, Bowling Green, OH.
227. November, 1996. "Two Outbreaks of Lawlessness in Recent Philosophy of Biology." Invited Symposium Presentation at the Biennial Meeting of the Philosophy of Science Association, Cleveland, OH.
228. January, 1997. "What is the Problem of Simplicity?" At conference on Simplicity and Scientific Inference. Tilburg, The Netherlands.
- 229-230. February, 1997. "Morgan's Canon" at Ohio State University and University of New Mexico, Philosophy Department Colloquia.
231. March, 1997. "Morgan's Canon" at the Southern Society for Philosophy and Psychology, Atlanta, Georgia.
232. April, 1997. "Physicalism from a Probabilistic Point of View." Oberlin Colloquium on Philosophy.
- 233-6. April, 1997. "Morgan's Canon," "Evolution and Optimality," "Physicalism from a Probabilistic Point of View," and "The Evolution of Psychological Altruism." Philosophy Department, University of Helsinki, Finland.
237. June, 1997. "Morgan's Canon." Society for Philosophy and Psychology Annual Meeting, New York City.
238. July, 1997. "Black Box Inference -- When should an intervening variable be postulated?" International Society for History, Philosophy and Social Studies in Biology Biennial Meeting, Seattle, WA.
239. September, 1997. "The Evolution of Psychological Egoism," Biology Colloquium. Binghamton University.
- 240-41. September, 1997. "Physicalism from a Probabilistic Point of View" and "Adaptation, Character Independence, and Phylogenetic Inertia" at the Philosophy Colloquium and the Entomology Colloquium, Cornell University.
242. October, 1997. Commentator on Alvin Plantinga's "Naturalism Defeated," Chapel Hill Philosophy Colloquium.
243. November, 1997. "The Evolution of Psychological Altruism," Cognitive Science Group, Albion College, Albion, Michigan.
244. December, 1997. "Instrumentalism Revisited" at Philosophy Department Colloquium, Ohio State University.
- 245-46. January, 1998. "Evolutionary Altruism and Simpson's Paradox" and "Instrumentalism Revisited" at the Center for Philosophy, Autonomous University of Mexico, Mexico City.
- 247-48. February, 1998. "Black Box Inference" and "Adaptation and Phylogenetic Inertia," University of Southern Louisiana.
- 249-255. March-April, 1998. "The Evolution of Psychological Altruism" (the annual Selfridge Lecture), "Black Box Inference," "Physicalism from a Probabilistic Point of View," "Instrumentalism Revisited," "Morgan's Canon," and Chapters 1-2 of Unto Others. Lehigh University.
256. April, 1998. "The Evolution of Psychological Altruism." West Virginia University.

- 257-259. May, 1998. "What is the Problem of Simplicity," "Psychological Egoism and Altruism," and "Altruism, Group Selection, and Simpson's Paradox." Chinese Society for the Dialectics of Nature, Beijing Normal University, and University of Beijing. Beijing, China.
- 260-262. May-June, 1998. "Altruism, Group Selection, and Simpson's Paradox" at University of the Basque Country, the Complutense University of Madrid, and University of Valencia, Spain.
263. August, 1998. "Evolutionary Psychology -- a Manifesto." Cognitive Science Society Annual Meetings, Madison.
264. August, 1998. "Instrumentalism Revisited." 20th World Congress of Philosophy, Boston.
265. September, 1998. "Adaptation and Phylogenetic Inertia." Conference in Honor of Richard Lewontin. Harvard University, Cambridge, MA.
266. September, 1998. "Evolutionary and Psychological Altruism." Economics Department Colloquium, UW-Madison.
267. November, 1998. "The Multiple Realizability Argument Against Reductionism." UW-Philosophy Department Colloquium.
- 268-270. January, 1999. "Physicalism from a Probabilistic Point of View," "Quine's Two Dogmas," and "Modus Darwin." Korean Society for Analytic Philosophy, Korean Society for Philosophy of Science, and Korean Society for Scientific Thought. Seoul, Korea.
271. January, 1999. "The Multiple Realizability Argument Against Reductionism." Philosophy Colloquium, Northwestern University.
272. February, 1999. "Normative Epistemology and Reverse Engineering." History of Science Brownbag. UW-Madison.
273. February, 1999. "Convention as an Epistemological Category." Conference on Conventions in Philosophy, Arizona State University.
274. March, 1999. "Testability." Montana State University Hausser Lecture.
275. March, 1999. "Fictionalism and Evil Demons." Undergraduate Philosophy Club, UW-Madison.
276. April, 1999. Participant at a Liberty Fund Conference on Unto Others and Skyrms' The Evolution of the Social Contract, Vancouver, Canada.
277. May, 1999. "Testability." Presidential Address. Central Division APA, New Orleans.
278. June, 1999. "The Evolution of Altruism." Santa Fe Institute for Nonlinear Studies.
278. July, 1999. Participant in a Symposium on Unto Others, Biennial Meeting of the International Society for History, Philosophy, and Social Studies in Biology. Oaxaca, Mexico.
279. July, 1999. "The Principle of Conservatism in Cognitive Ethology." Royal Institute of Philosophy Conference on Naturalism, Evolution, and Mind. Edinburgh, UK.
280. August, 1999. "Why Fitness is not a Probabilistic Expectation." Congress of the International Union for History and Philosophy of Science, Division of Logic, Methodology, and Philosophy of Science. Cracow, Poland.

281. September, 1999. "The Multiple Realizability Argument against Reductionism." Georgia State University. Athens, Georgia.
282. October, 1999. "The ABC's of Altruism." Templeton Conference on Empathy, Altruism, and Agape. Cambridge, MA.
283. November, 1999. "Evolution and the Problem of Other Minds." University of Illinois at Chicago Circle Philosophy Department Colloquium.
284. January, 2000: "Evolution and the Problem of Other Minds." Semi-Annual London School of Economics /University College Lecture on Philosophy of Biology.
285. February, 2000. "Altruism and the Units of Selection" at a joint Rutgers/Princeton graduate seminar in philosophy.
286. February, 2000. "Evolution and the Problem of Other Minds," Philosophy Department Colloquium, Caltech.
- 287-89. March, 2000. "Evolution and the Problem of Other Minds" at University of Vienna and at Eötvös University in Budapest. "Altruism and Group Selection" at the Hungarian Academy of Sciences, Budapest.
290. March, 2000. "Evolution and the Problem of Other Minds." Northern Illinois University Philosophy Department Colloquium.
291. April, 2000. Author Meets Critic Session on Unto Others. Central Division APA Meeting, Chicago.
292. April, 2000. "Altruism," UW-Madison Colloquium in Social Psychology, Sociology Department.
- 293-4. May, 2000. "Evolution and the Problem of Other Minds" and "Altruism and Group Selection." University of Barcelona, Spain.
295. May, 2000. "Evolution and the Problem of Other Minds." University of Bristol.
- 296-7. June, 2000. "Evolution and the Problem of Other Minds" and "British Bread Prices, Venetian Sea Levels, and Reichenbach's Principle of the Common Cause." Oxford University.
298. June, 2000. "British Bread Prices, Venetian Sea Levels, and Reichenbach's Principle of the Common Cause." British Society for the Philosophy of Science, London
299. June, 2000. "Evolution and the Problem of Other Minds." Cambridge University.
300. June, 2000. "Adaptation and Phylogenetic Inertia." All-London History and Philosophy of Science Colloquium.
301. June, 2000. "Demystifying Simplicity." Anniversary Lecture, Centre for the Philosophy of the Natural and Social Sciences. London School of Economics.
302. July, 2000. "Quine's Two Dogmas." Joint Sessions of the Aristotelian Society and the Mind Association. Sheffield, UK.
303. September, 2000. "Cladism and Anthropomorphism." Behavior Interdisciplinary Affiliation. UW.
304. October, 2000. "What's Wrong with Anthropomorphism?" Oregon State University.
- 305-6. November, 2000. "Instrumentalism, Parsimony, and the Akaike Framework." Philosophy of Science Association Biennial Meeting in Vancouver and at the University of Florence.

- 307-8. December, 2000. "Darwin's Two-Part Theory" and "The Design Argument" at Kansas State University. Manhattan, KS.
309. February, 2001. "Darwin's Two-Part Theory." AAAS symposium, San Francisco.
310. February, 2001. "The Value of Simplicity." Conference on Values in Science. University of Alabama, Birmingham.
311. March, 2001. "Bayesianism – Its Scope and Limits." Symposium on Bayes' Theorem. The British Academy. London.
- 312-13. March, 2001. "Darwin's Two-Part Theory." The Moral Sciences Club. Cambridge University, and William and Mary College, Virginia.
314. April, 2001. "Darwin's Two-Part Theory." Ohio University.
315. April, 2001. "The Evolution of Altruism." A Faculty Coterie. UW, Madison.
- 316-17. May, 2001. "The Design Argument" and "Reply to Joel Pust," APA Central Division. Minneapolis.
318. May, 2001. "A Philosopher's Comments." Conference on Anthropocentrism. Max Planck Institute. Berlin.
319. July, 2001. "Two Uses of Unification." Conference on the Vienna Circle and Logical Empiricism. University of Vienna.
- 320-21. September, 2001. "The Logic and Illogic of the Design Argument" (the Benjamin Lecture) and "Common Ancestry and Natural Selection," at University of Missouri, Columbia.
322. October, 2001. "The ABC's of Altruism." Science and Technology Studies Brown Bag, UW-Madison.
- 323-4. October, 2001. "Common Ancestry and Natural Selection." Evolution Discussion Group, UW-Madison, and Philosophy Colloquium, Stanford University.
325. November, 2001. "The Design Argument" at the Tennessee Annual Philosophy Conference, Nashville.
326. December, 2001. "Are Human Beings Part of the Rest of Nature?" Conference on Ethics, Biology, and the Representation of Behavior. Italian Institute for the Study of Philosophy. Venice, Italy.
- 327-8. January, 2002. "The Design Argument" and "Prediction, Accommodation, and Over-Fitting" at CalTech.
- 329-30. February, 2002. "The Design Argument" and "Common Ancestry and Natural Selection," University of Tennessee, Knoxville.
- 331-3 March, 2002. "Likelihood and Design," "Common Ancestry and Natural Selection," and "Testing Adaptive Hypotheses." The Simon Lectures, University of Toronto.
334. March, 2002. "Common Ancestry and Natural Selection." MIT.
- 335-7. April, 2002. "The Design Argument," "Evolution and the Problem of Other Minds," and "Common Ancestry and Natural Selection." Rutgers University.
358. April, 2002. Commentary on Prasanta Bandyopadhyay's "Simplicity – Our View, Their View," at the Central Division APA, Chicago.
- 359-60. May, 2002. "Causal Questions about the Units of Selection" and "Causal Inference with Time Series Data," Working Group on Causality, Philosophy Department, London School of Economics.

361. July, 2002. "Art and Evolution." NEH Summer Institute on Art, Mind, and Cognitive Science. University of Maryland.
- 362-3. October, 2002. "Testing Adaptive Hypotheses" in Porto, Portugal and "Natural Selection and Common Ancestry" in San Sebastian, Spain.
364. October, 2002. "Popper, Corroboration, Phylogenetic Inference, and Akaike." Field Museum Systematics Seminar, Chicago.
365. February, 2003. "Likelihood, Model Selection, and the Duhem-Quine Problem." UC-Irvine.
366. February, 2003. "Intelligent Design versus Evolutionary Theory." California State University, Long Beach.
- 367-369. April, 2003. "Intelligent Design is Untestable. What about Natural Selection?" California Academy of Sciences philosophy of biology seminar, San Francisco; Department of Anthropological Sciences, Stanford University; American Philosophical Association meeting, Cleveland.
370. May, 2003. "The Contest between Likelihood and Parsimony." Field Museum Symposium on Philosophy and Systematics, Chicago.
371. June, 2003. "Likelihood and the Duhem-Quine Problem." Workshop on Logic and Philosophy of Science, Stanford University.
372. June, 2003. "The Contest between Likelihood and Parsimony." Workshop on Geometric Methods in Biology. American Institute of Mathematics, Palo Alto.
373. "Likelihood, Model Selection, and the Duhem-Quine Problem," Conference on Causation, London School of Economics.
374. August, 2003. "Intelligent Design is Untestable. What about Natural Selection?" Plenary Address, International Union of History and Philosophy of Science (Division of Logic, Methodology, and Philosophy of Science), Oviedo, Spain.
375. September, 2003. "The Contest between Likelihood and Parsimony." Bay Area Biosystematics Colloquium, California Academy of Sciences, San Francisco.
376. September, 2003. "Intelligent Design is Untestable. What about Natural Selection?" Philosophy Colloquium, University of California, Berkeley.
377. October, 2003. "Sex Ratio Theory, Ancient and Modern." Workshop on History and Philosophy of Artificial Life, Stanford University.
- 378-380. December, 2003. "Likelihood, Model Selection, and the Duhem-Quine Problem" at the University of Paris-Sorbonne and as the Vienna Circle Lecture at the Fourteenth Amsterdam Colloquium, University of Amsterdam. "Intelligent Design is Untestable. What About Natural Selection?" at the Institute for History and Philosophy of Science and Technology, University of Paris.
381. January, 2004. "Is Drift a Serious Alternative to Natural Selection When it Comes to Explaining Adaptive Complexity?" Royal Institute of Philosophy Lecture, London.
382. January, 2004. "19th Century Emergentism Meets 20th Century Statistics." Workshop on Emergence and Complexity, Stanford University.
383. March, 2004. "The Design Argument." California State University, Long Beach.

384. April, 2004. "How to Think about Coincidences." Wisconsin Philosophical Association keynote address, Marquette University.
385. April, 2004. "On James Woodward's *Making Things Happen*." Author Meets Critic Session, Chicago APA.
- 386-7. May, 2004. "How to Think about Coincidences." University of Washington Philosophy Colloquium and the Berkeley Workshop on Formal Epistemology.
- 388-9. June, 2004. "The Contest between Likelihood and Parsimony" and "Drift and Selection," at LSE.
- 390-2. September, 2004. "The Logic of the Design Argument," public lectures at UW, Madison (sponsored by the Center for the Humanities) and at Western Michigan University. "The Reality of Macro-Probabilities," Philosophy Colloquium, WMU.
393. October, 2004. "The Reality of Macro-Probabilities." Philosophy Colloquium, University of North Carolina, Chapel Hill.
394. November, 2004. "The Reality of Macro-Probabilities." Presidential Address, Philosophy of Science Association, Austin, TX.
395. December, 2004. Author-Meets-Critics symposium on Avizer Tucker's *Our Knowledge of the Past*," Society for the Philosophy of History, American Philosophical Association, Boston.
396. February, 2005. "Reality of Macro-Probabilities." Philosophy of Science Conference. University of California, Santa Barbara.
397. March, 2005. "Psychological Altruism – A Comforting Illusion?" Science and Today's Visions of the World. Venice, Italy.
398. March, 2005. "Discussion of Luc Bovens and Stephan Hartmann's *Bayesian Epistemology*." Invited symposium, APA, San Francisco.
- 399-400. April, 2005. "Morgan's Canon" and "The Design Argument." University of Montana, Missoula.
401. May, 2005. "The Design Argument" The Nature of Knowledge Lecture, Edinburgh University.
402. May 2005. "Epiphenomenalism in Philosophy of Mind and Philosophy of Biology." Philosophy of Biology Workshop, Stirling University, Scotland.
- 403-4. May, 2005. "The Design Argument" and "Parsimony and its Presuppositions." University of Oslo, Norway.
405. May 2005. (with Larry Shapiro). "Epiphenomenalism – the Do's and the Don'ts." Pittsburgh-Konstanz Conference on Causality, University of Konstanz, Germany.
- 406-8. September, 2005. "The Design Argument" at Macalester College and University of Wyoming, Laramie; "Epiphenomenalism – the Do's the Don'ts" at University of Wyoming, Laramie
- 409-12. October, 2005. "The Design Argument" at Union College, Binghamton University, and Dartmouth College; "Epiphenomenalism – the Do's and the Don'ts" at Dartmouth.
- 413-16. January, 2006. "Morgan's Canon" at a conference on methodology at Bisva Bharati University, Shantiniketa, India; "The Design Argument" at University of Rajasthan and Delhi University; "The Principle of Parsimony" at the Global College of Technology, Jaipur, India.

- 417-18. February 2006. “Darwin and Intelligent Design” at Darwin Day and “What’s Wrong with Intelligent Design Theory?” at the Biochemistry Department, UW-Madison.
- 419-420. March, 2006. “Intelligent Design” and “Epiphenomenalism – the Do’s and the Don’ts” at University of Delaware.
421. March 2006. “Which Traits Provide the Best Evidence for Common Ancestry.” Laguna Beach Workshop in Philosophy of Biology. University of California, Irvine.
422. March 2006. “Epiphenomenalism – the Do’s and Don’ts.” Sonoma Valley Philosophy Conference.
423. June 2006. “Evidence and Evolution.” Rockefeller Institute, Bellagio, Italy.
424. March 2007. Responses to chapter commentators (John Earman, Sandra Mitchell, Samir Okasha, and Christopher Stephens) at a workshop on my book manuscript, *Evidence and Evolution*, at University of Pittsburgh.
- 425-6. May 2007. “Phylogenetic Parsimony” (Institute for History and Philosophy of Science and Technology, University of Paris, and the Van Leer Institute for History and Philosophy of Science, Hebrew University, Jerusalem).
- 427 May 2007. Responses to papers by David Papineau, Gabriel Segal, Damien Fennell, and Tim Leuwens at a conference on my work at the Institute for Philosophy, University of London.
428. September 2007. “Absence of Evidence and Evidence of Absence.” University of Missouri, Columbia Kline workshop.
429. February 2008. “Simplicity and Complexity in the Arts and Sciences.” Wisconsin Humanities Center presentation in the “What is the human?” series.
- 430-431. February 2008. “Absence of Evidence and Evidence of Absence” and “Evolution without Metaphysics?” at Arizona State University. Plenary speaker at Graduate and Undergraduate Philosophy Conferences.
432. March 2008. “Phylogenetic Parsimony, Likelihood, and Ancestors.” At Ecology and Evolution Program Colloquium, University of Illinois, Champaign-Urbana.
433. March 2008. “Evolution without Metaphysics?” Prometheus Lecture. American Philosophical Association Pacific Division Meeting. Pasadena, CA.
- 434-5. April 2008. “Absence of Evidence and Evidence of Absence.” Oberlin Colloquium in Philosophy and at a Philosophy Colloquium, University of Utah.
436. May, 2008. “Simplicity and Complexity in the Arts and Sciences.” Bridging the Two Cultures in the New Millennium. University of Wisconsin, Madison.
437. May, 2008. “Comments on Ernest Sosa’s Epistemology.” Epistemology Workshop. University of Wisconsin, Madison.
438. May, 2008. “The Birds Outside -- Reichenbach's Cubical Universe and the Problem of the External World.” Conference on the 70th Anniversary of the Publication of Reichenbach’s *Experience and Prediction*. Bogazici University, Istanbul, Turkey.
- 439-443. May, 2008. “Evolution without Metaphysics” and “Parsimony without Metaphysics.” Pentecost Lectures at Bielefeld University, Germany, and three seminars there too: “Absence of Evidence and Evidence of Absence,” “The Birds Outside -- Reichenbach's Cubical Universe and the Problem of the External World,” “Physicalism from a Probabilistic Point of View.”

- 444-445. September, 2008. "Darwin and Intelligent Design" (the Evans Lecture) and "The Birds Outside -- Reichenbach's Cubical Universe and the Problem of the External World" (department colloquium), University of Nebraska, Lincoln.
446. October, 2008. "Absence of Evidence and Evidence of Absence." Chapel Hill Colloquium in Philosophy, University of North Carolina, Chapel Hill.
447. November, 2008. "Conventionalism, Realism, and Causal Decomposition in Units of Selection." Biennial Meeting of the Philosophy of Science Association. Pittsburgh, PA.
- 448-449. November, 2008. "Darwin and Intelligent Design." First Unitarian Church of Madison lecture on science and religion and a lecture for the Wisconsin Initiative for Science Literacy.
450. November, 2008. "Genealogies of Organisms, Languages, and Texts." Center for the Humanities Symposium, UW-Madison.
451. December, 2008. "Parsimony Arguments in Science and Philosophy." The Patrick Rominell Lecture on Philosophical Naturalism, American Philosophical Association, Philadelphia, PA.
452. January, 2009. "What is Darwin's Theory?" National Academy of Sciences Conference *In the Light of Evolution*. University of California, Irvine.
453. January, 2009. "Darwin and Intelligent Design." Northeast Senior Coalition. Warner Park. Madison, WI.
- 454-5. February, 2009. "Parsimony Arguments in Science and Philosophy." Gareth Evans Memorial Lecture; Faculty Seminar on Part II of "Parsimony Arguments in Science and Philosophy." Oxford University
456. February, 2009. "What Is Darwin's Theory?" Choice Seminar, Philosophy Department, London School of Economics.
457. February, 2009. "Levels of Intentionality and Model Selection." Behavior Interdisciplinary Association. UW-Madison.
458. February, 2009 (w. Ronald Numbers) "Teaching the History and Philosophy of Science Together: A Recent Experiment." History of Science Brown Bag, UW-Madison
459. March, 2009. "Why Methodological Naturalism?" Conference on Evolution and Religion, Pontifical Gregorian University, Rome.
460. March, 2009. "Did Darwin Write the *Origin* Backwards?" University of Catania, Sicily.
461. March, 2009. "Darwin and Intelligent Design." Wheaton College. Wheaton, Illinois.
462. April, 2009. "Darwin and Intelligent Design," University of Wisconsin, Stevens Point.
- 463-4. April, 2009. "Darwin and Intelligent Design," and "Parsimony Arguments in Science and Philosophy." Southern Methodist University, Dallas, Texas.
465. April, 2009. "The Chronological Test of Adaptive Hypotheses." Evolution Studies Seminar, UW-Madison.
466. April, 2009. "Darwin and Group Selection." Conference on Emotions and Altruistic Behavior in the Evolutionary History of Humankind, Italian Institute of Anthropology, Rome.

467. May, 2009. "The Ethics of Belief versus the Will to Believe." Madison Skeptics.
- 468-469. July, 2009. "Darwin and Methodological Naturalism" and "Darwinian Theory and the Foundations of Ethics" at the Darwin Festival, Cambridge University.
470. July, 2009. "Did Darwin write the *Origin* Backwards?" British Society for the Philosophy of Science, Norwich, UK.
- 471-473. September, 2009. "Darwin and Intelligent Design," "Did Darwin write the *Origin* Backwards?," and "Darwin and Group Selection." The David Ross Boyd Lectures at University of Oklahoma, Norman
474. September, 2009. "Darwin and Intelligent Design." Oklahoma State University, Stillwater.
475. October, 2009. "Did Darwin write the *Origin* Backwards?" Smith College, Northampton, MA.
- 476-477. October, 2009. "Darwin and Intelligent Design" and "Did Darwin write the *Origin* Backwards?" The Belgum Lectures. St. Olaf College, St. Paul, MN.
- 478-480. October-November, 2009. "Did Darwin write the *Origin* Backwards?" at (i) European Society for the Philosophy of Science, Amsterdam, (ii) the Darwin Festival, University of Chicago, (iii) Autonomous University of Mexico, Mexico City Darwin conference.
- 481-2. January 2010. "Did Darwin write the *Origin* backwards?" and "Darwin and Naturalism" at Caltech.
- 483-6. February, 2010. "Bayesianism, Likelihoodism, and Frequentism," "The Design Argument, Duhem's Thesis, and Testability," "Did Darwin write the *Origin* Backwards?" and "Darwin and Group selection, at University of Valencia.
487. February, 2010. "*A Priori* Causal Models of Natural Selection" at University of Barcelona.
- 488-492. March-April, 2010. "Did Darwin write the *Origin* Backwards," "Darwin and Naturalism," "Darwin and Group Selection," "*A Priori* Causal Models of Natural Selection," and "Darwin and Intelligent Design" at Sydney University.
493. April, 2010. "*A Priori* Causal Models of Natural Selection" at Australian National University.
494. June, 2010. "Darwin and Intelligent Design," The Kitzmiller Lecture, Ohio University.
- 495-498. June, 2010. Four replies to Alvin Plantinga's four lectures on fine-tuning, naturalism, divine intervention, and evolution. Workshop on philosophy of religion, University St. Thomas, St. Paul, MN.
499. September, 2010. "*A Priori* Causal Models of Natural Selection." University of Colorado, Boulder.
500. October, 2010. "A La Recherche du Temps Perdu — Are there limits on our knowledge of the evolutionary past?" University of Western Ontario.
501. October, 2010. "Parsimony Arguments in Science and Philosophy." University of Cincinnati Conference on Naturalism.
502. October, 2010. "Darwin and Intelligent Design." University of Northern Iowa.
503. December, 2010. "Epistemological Similarities and Differences Among the Sciences." Presentation to National Academy of Science Board on Science Education (Committee on the Status, Contributions, and Future Directions of Discipline Based Education Research). NAS Center, Irvine California.

504. February, 2011. "Darwin on Group Selection." Darwin Day Symposium, UW-Madison.
505. February, 2011. "Why did Darwin change his mind about sex ratio?" Evolution seminar, UW-Madison.
506. March, 2011. "Parsimony, Animal Minds, and Model Selection." Presidential Lecture at the Southern Society for Philosophy and Psychology, New Orleans.
507. April, 2011. "Responses to my Three Commentators." Author-Meets-Critics symposium on my book *Evidence and Evolution*, APA Central Division meeting, Minneapolis.
508. April, 2011. "Screening-off and Causal Incompleteness." Philosophy Colloquium, University of Notre Dame.
509. May, 2011. "What is Evolutionary Mismatch?" Workshop on Evolutionary Mismatch. National Evolutionary Synthesis Center, Durham, North Carolina.
510. June 2011. "Surprise Examinations and Unpredictable Prey." University of Bristol Conference on Evolution, Cooperation, and Rationality.
511. June, 2011. "Two Unappreciated Features of Models in Science." Workshop on Models in Science and Everyday Thought, University of Hertfordshire.
512. June, 2011. "Simplicity in the Arts and the Sciences." Francis Bacon Lecture, University of Hertfordshire.
513. July, 2011. "Screening-off and Causal Incompleteness." Congress of the International Union of History and Philosophy of Science, Division of Logic, Methodology, and Philosophy of Science, Nancy, France.
514. August, 2011. Discussion of *Did Darwin write the Origin Backwards?* Zoology and Evolution Reading Group, UW-Madison.
515. August, 2011. "What is Science (with reference to evolution versus intelligent design)." Workshop for high school biology teachers organized by the Education and Outreach Program of the National Evolutionary Synthesis Center, UW-Madison.
516. September, 2011. "Screening-Off and Causal Incompleteness." Wesley Salmon Memorial Lecture, University of Pittsburgh.
517. September, 2011. "Two Criticisms of Intelligent Design." Madison Science Pub.
- 518-519. October, 2011. "Did Darwin write the *Origin Backwards?*" Santagata Lecture, Bowdoin College. And "Instrumentalism – Old-School and New-Fangled," also at Bowdoin.
- 520-521. November, 2011. "Did Darwin write the *Origin Backwards?*" and "Instrumentalism, Parsimony, and Model Selection." Philosophy Department, University of South Carolina.
522. January, 2012. "Instrumentalism – Old-School and New-Fangled," Philosophy Department Colloquium, Georgia State University.
523. February, 2012. "Instrumentalism – Old-School and New-Fangled," Philosophy Department Colloquium, Purdue University.
- 524-526. March-April, 2012. "Naturalism and Evolutionary Theory." Philosophy Department Colloquium, Florida State University; the Darwin Seminar, University of Chicago; Philosophy Department Colloquium, University of Connecticut, Storrs.
527. April, 2012. "Two Evolutionary Arguments about Anthropomorphism," Psychology Department Colloquium, University of Wisconsin, Madison.

528. April, 2012. “Evidentialism and Atheism.” Madison Freethought Festival.
- 529-530. May, 2012. “Naturalism and Evolutionary Theory” and “Why Did Darwin Change his Mind about Sex Ratio?” Faraday Lecture and History and Philosophy of Science Colloquium, Cambridge University.
531. June 2012. “Parsimony, Likelihood, Common Causes, and Phylogenetic Inference.” Workshop on Ockham’s Razor. Carnegie Mellon University, Pittsburgh, PA.
532. September 2012. “Two Cornell Realisms – Scientific and Ethical.” Philosophy Department, Cornell University.
533. September 2012. “Time and Knowability in Evolutionary Processes” Conference on Philosophy of Time. University of Michel de Montaigne. Bordeaux, France.
- 534-535. October 2012. “Why did Darwin Change his Mind about Sex Ratio?” Linnaean Society of London and “Time and Knowability in Evolutionary Processes,” London School of Economics.
- 536-537. October, 2012. “Time and Knowability in Evolutionary Processes” and “Fitness and Selection, Extensionality and Propensity” at Munich Center for Mathematical Philosophy, Ludwig Maximilian University, Munich.
538. October, 2012. “‘What would happen if?’ in Evolutionary Biology.” At a conference on thought experiments, University of Kontanz.
- 539-541. November, 2012. “Two Cornell Realisms – Moral and Scientific” at philosophy department colloquia or brownbags at MIT, Brown University, and UW-Madison.
542. December, 2012. “Replies to critics (Robert Richards and Denis Walsh) of *Did Darwin Write the Origin Backwards?*” at the Eastern APA. Atlanta, Georgia.
- 543-545. January, 2013. “Darwin and Intelligent Design,” “Two Cornell Realisms,” and “Earman on Hume on Miracles” at Texas Christian University. Fort Worth, TX.
546. February, 2013. “Methodological Naturalism about Methodology – a Short History of Parsimony.” Conference on Science without God: Religion, Naturalism, and the Sciences, Florida State University, Tallahassee, FL.
547. March, 2013. “Causal Completeness and Evolutionary Theory,” Templeton Foundation, Philadelphia, PA.
- 548-549. March, 2013. “Scientific and Moral Realisms.” Philosophical Association of Argentina Annual Conference. “Responses to four presentations on my work.” Center for Research in Analytic Philosophy. Buenos Aires, Argentina.
- 550-551. April, 2013. “Did Darwin write the *Origin Backwards?*” and “Group Selection” at UW-Oshkosh.
552. June, 2013. “Chimpanzee Theory of Mind and Postulating an Intervening Variable.” Very Informal Seminar series. Wisconsin Institute of Discovery.
- 553-554. July, 2013. Comments on five papers (by Steve Stich, Christine Clavien, Justin Garson, Armin Schulz, Chandra Sripada) on the evolution of psychological altruism and comments on three critiques (by Jean Gayon, Samir Okasha, Tim Lewens) of my book *Did Darwin Write the Origin Backwards?* Biennial meeting of the International Society for History, Philosophy, and Social Studies of Biology, Montpellier, France.
555. October, 2013. “Parsimony and Chimpanzee Mind-Reading.” Conference on Science and Reality at University of Western Ontario.

556. October, 2013. “Did Darwin write the *Origin* Backwards?” Lecture at University of California, Chico.
557. December, 2013. “Parsimony and Chimpanzee Mind-Reading.” Alberto Coffa Lecture, Indiana University.
558. January, 2014, “Parsimony and Chimpanzee Mind-Reading.” Philosophy Department, Northern Illinois University.
559. February, 2014. “What is Philosophy?” Linda Murphy’s 5th grade class, Jefferson Elementary School, Jefferson, Wisconsin.
- 560-562. March, 2014. “A Priori Causal Models of Natural Selection,” “Parsimony Arguments in Science and Philosophy,” and “Parsimony and Chimpanzee Mind-Reading.” University of Barcelona.
563. March, 2014. “Time and Knowability in Evolutionary Processes.” Evolution Seminar Series, UW-Madison.
- 564-565. April, 2014. “Did Darwin write the *Origin* Backwards?” and “Parsimony Arguments in Science and Philosophy” University of Iowa, Iowa City.
566. April, 2014. “Parsimony Arguments in Science and Philosophy.” University of Missouri, Kansas City.
567. May, 2014. “Evolution and the Flow of Information.” Conference on the work of Fred Dretske, Duke University.
568. August, 2014. “Parsimony and Chimpanzee Mind-Reading.” Philosophy Department, University of Helsinki.
569. September, 2014. “Two Dangers for Philosophy of Biology.” Calgary Summit Conference, University of Calgary.
570. October, 2014. “Three Epistemological Problems in Darwinian Theory” Workshop on Formal Epistemology and Science, University of Utah.
571. November, 2014. “Is the Scientific Method a Myth?” Biennial Meeting of the Philosophy of Science Association, Chicago.
572. April, 2015. “The Philosophical Significance of Stein’s Paradox.” Department of Logic, Philosophy, and Scientific Method, London School of Economics.
- 573-574. April 2015. “Parsimony Arguments in Science” and “Parsimony in Phylogenetic Inference.” University of Padua, Italy.
575. April, 2015. “Darwin’s Phylogenetic Reasoning.” University of Bologna, Italy.
576. April, 2015. “Simpson’s Paradox – sex discrimination, altruism, and smoking.” Wisconsin Festival of Ideas, UW-Madison.
577. June, 2015. “Parsimony in Philosophy.” Ernst Mach Workshop, Institute of Philosophy, Prague, Czech Republic.
578. June, 2015. “Parsimony and Chimpanzee Mind-Reading.” Berlin School of Mind and Brain, Humboldt University, Berlin
579. June, 2015. “Science and Religion.” Wisconsin Initiative for Science Literacy, UW-Madison.
580. July, 2015. “How Probable is Common Ancestry According to Different Evolutionary Processes?” Biennial meeting of the International Society for History, Philosophy, and Social Studies of Biology, Montreal, Canada.

- 581-582. September, 2015. “Darwin and Intelligent Design” and “Did Darwin write the *Origin* Backwards?” at Washington State University, Pullman.
583. November, 2015. “Ockham’s Razors – When is the Simpler Theory Better?” Philosophy Department Public Lecture, UW-Madison.
584. January, 2016. “Ockham’s Razors – When is the Simpler Theory Better?” University of South Florida, Tampa.
- 585-588. March, 2016. “Ockham’s Razors – When is the Simpler Theory Better?”, “Darwin’s Phylogenetic Reasoning”, “Is Ockham’s Razor the Solution to the Mind/Body Problem?”, and “Parsimony and Chimpanzee Mind-Reading.” Emory University, Atlanta, Georgia.
- 589-592. April, 2016. “Ockham’s Razors – When is the Simpler Theory Better?” “Parsimony and Phylogenetic Inference” “Parsimony and Chimpanzee Mind-Reading” and “Parsimony Arguments in Philosophy” at Ohio University, Athens, Ohio.
- 593-594. April, 2016. “Ockham’s Razors – When is the Simpler Theory Better?” Pacific University, Portland, Oregon, and at UW Colleges Philosophy Department.
595. June, 2016. “Ockham’s Razors – When is the Simpler Theory Better?” International Conference on Quantitative Genetics. Madison, Wisconsin.
596. September, 2016. “Ockham’s Razor and the Mind/Body Problem.” Washington University, St. Louis, Missouri.
597. December, 2016. “Ockham’s Razors – When is the Simpler Theory Better?” Lisbon International Conference on Philosophy of Science. Lisbon, Portugal.
598. March, 2017. “Humanities Crossing Boundaries.” University of Nebraska – Lincoln.
599. April, 2017. “Ockham’s Razors – When is the Simpler Theory Better?” Vassar College, Poughkeepsie, Connecticut.
- 600-601. April, 2017, “Darwin’s Phylogenetic Reasoning” and “Ockham’s Razors – When is the Simpler Theory Better?” Biology and Philosophy Departments, University of Washington, Seattle.
602. May, 2017. “Darwin’s Phylogenetic Reasoning.” Department of Systems Biology, Harvard University, Cambridge, Massachusetts.
603. June, 2017. “Darwin’s Phylogenetic Reasoning.” Biology Department, Georgia Tech, Atlanta, Georgia.
- 604-605. July, 2017. “Darwin’s Phylogenetic Reasoning” and “Why are Simpler Theories Better?” Centre for Comparative Genomics & Evolutionary Bioinformatics and Philosophy Department, Dalhousie University. Halifax, Canada.
606. August, 2017. “Ockham’s Razor and the Mind/Body Problem.” European Society for Analytic Philosophy. Munich, Germany.
607. September, 2017. “Darwin’s Phylogenetic Reasoning.” Philosophy Department, University of Rochester.
- 608-609. October, 2017. “Why I Couldn’t Stop Thinking about Ockham’s Razor” and “When are Simpler Theories Better?” at a University of Copenhagen workshop on *Ockham’s Razors*. Copenhagen, Denmark.
610. November, 2017. “Ockham’s Razor and the Mind/Body Problem.” Bi-Co Philosophy Speaker, Philosophy Departments, Bryn Mawr College and Haverford Colleges, Pennsylvania.

611. January, 2018. (with William Roche) “Explanatoriness is Evidentially Irrelevant.” University of Barcelona workshop on explanation and realism. Barcelona, Spain.
612. February, 2018. “Linda the Feminist Bankteller, Out-of-Africa Human Migration, and Probability.” Evolution Seminar Series, University of Wisconsin, Madison.
613. February, 2018. “Is the Scientific Method a Myth? Scientific Methods That Aren’t Subject-Matter Specific.” Lebowitz Prize lecture. University of Wisconsin-Madison.
- 614-615. February, 2018. “Ockham’s Razor and the Mind-Body Problem” and “When is the Simpler Theory Better?” at Concordia University and McGill University, Montreal, Canada.
- 616-617. April, 2018. “Modern Philosophical Uses of Ockham’s Razor, I and II.” Iowa State University. Ames, Iowa.
618. May, 2018. “Creationism, Intelligent Design, the Demarcation Problem, the Lemon Test, and the US Constitution.” Philosophy of Biology at the Mountains Conference, University of Utah, Salt Lake City, Utah.
- 619-20. July, 2018. “Triangulation and Consilience in Causal Inference” and “Ockham’s Razor(s) and Triangulation.” Workshop on Triangulation and Causal Inference. University of Bristol. Bristol, UK.
621. September, 2018. “Philosophical Interventions in Science – a Strategy and a Case Study (Parsimony).” Academie Internationale de Philosophie des Sciences Annual Conference. Amsterdam.
622. October, 2018. “When is the Simpler Theory Better?” Ohio State University. Columbus, Ohio.
623. November, 2018. (with William Roche) “Disjunction *and* Distality - the hard problem for purely probabilistic causal theories of the propositional content of perceptual beliefs. *PSA 2018: The 26th Biennial Meeting of the Philosophy of Science Association*. Seattle, Washington.
624. January, 2019. “When is the Simpler Theory Better?” Philosophy Department University of California – San Diego.
625. February, 2019. “Is the Scientific Method a Myth? Scientific Methods That Aren’t Subject-Matter Specific.” Lebowitz Prize Symposium, American Philosophical Association Meeting, Denver, Colorado.
626. March, 2019. “CRISPR Gene-Drive and the War Against Malaria – The Evolutionary ABCs.” Institute for Practical Ethics, University of California – San Diego.
627. May, 2019. “Fitness and the Twins.” Conference on Recent Trends in Philosophy of Biology. Bilkent University, Ankara, Turkey.
- 628-629. October, 2019. “CRISPR Gene-Drive and the War Against Malaria – The Evolutionary ABCs.” University of Bordeaux philosophy of biology conference (Bordeaux, France) and a History and Philosophy of Science Department Colloquium (Cambridge University, UK).
- 630-633. October-November, 2019. “Solving Problems in Philosophy of Science by Using (some simple ideas about) Probability.” The Turner Lectures, Trinity College, Cambridge.
634. January, 2020. “Ethical Values and Theory Evaluation in Science.” Philosophy of science graduate seminar, University of California, San Diego.
635. February, 2020. “Group Selection.” Active Genetics Colloquium, Tata Institute for Genetics and Society, University of California, San Diego.
636. October, 2020. “Are Simpler Theories Better?” Philosophy of Science Group of India.

637. December, 2020. “Metaphysical Naturalism, Methodological Naturalism, and Evolutionary Theory.” Philosophy and Biology Departments, Universidad de Antioquia, Colombia.
638. February, 2021. “Unguided Mutation and the Causal Completeness of Evolutionary Theory.” Winter School of Sharif University of Technology, Tehran, Iran.
638. March, 2021. “CRISPR gene-drives, Malaria, and the evolutionary dynamics of meiotic drive.” Active Genetics Group, University of California, San Diego.
- 639-641. April, 2021. “Ockham’s Razors,” “Realism, Empiricism, and Instrumentalism,” and “Values in Science.” Hugues Leblanc Lectures (“Putting Probability to Work in Philosophy of Science). University of Quebec – Montreal.
642. July, 2021. “Gradualism, Natural Selection, and the Randomness of Mutation - Darwin, Fisher, and Connecting the Dots.” International Society of History, Philosophy, and Social Studies of Biology, Biennial Meeting.
643. July, 2021. “Realism, Empiricism, and Instrumentalism.” Dianoia Institute of Philosophy, Australian Catholic University, Melbourne, Australia.
644. November, 2021. “Philosophy In Science – Some Reflections.” Symposium on Philosophy in Science, Philosophy of Science Association Biennial Meeting. Baltimore, Maryland
- 645-649. February-March, 2022. “Darwin, Altruism, and Group Selection,” Lehigh University Philosophy Colloquium; University of Tehran Darwin Day Symposium; Plant Pathology Seminar, UW-Madison; Minnesota State University (Mankato) Philosophy Colloquium; British Academy Philosophy Section Colloquium.
650. April, 2022. (with Matthew Maxwell) “Evolutionary Gradualism, Natural Selection, and Random Mutation – Fisher, Kimura, and Connecting the Dots.” UW-Madison Evolutionary Studies Seminar.
- 651-2. June, 2022. “Simpson’s Paradox and Weight of Evidence for Common Ancestry - My Collaborations with David Sloan Wilson and Mike Steel” and “Gradualism, Random Mutation, and Natural Selection.” Workshop on Philosophy in Science, Bordeaux, France.
653. July, 2022. “Darwin’s Theory of Sex Ratio Evolution and his Mysterious Retraction.” Conference on Darwin’s *Descent of Man*. Institute for Advanced Studies, Paris, France.
654. August, 2022. “Science and Philosophy – Can the Twain Meet?” Averroes Centre for Philosophical Studies, Islamic University of Science and Technology (IUST), Awantipora, Kashmir, India.
654. September, 2022. “Race, Taxonomy, and Genealogy.” Rutgers and UPenn Philosophy of Race Reading Group.
- 656-8. December, 2022. “Absence of Evidence and Evidence of Absence,” “Darwin and Intelligent Design,” “Ockham’s Razor.” University of Alabama, Tuscaloosa.
659. February, 2023. “Darwin and Group Selection.” Iran Darwin Day Conference.
660. June, 2023. “Gradualism, Natural Selection, and Random Mutations – Darwin, Fisher, Kimura, and Orr.” Institute of History and Philosophy of Science, Paris.
- 661-2. June, 2023. “Darwin on Group Selection and Phylogenetic Inference – Simpson’s Paradox and the Law of Likelihood” and “Replies to Kevin Lala, Ford Doolittle, and Silvia di Monte” at the inaugural Phil-In-BioMed Award Lecture, PhilInBioMed Institute, University of Bordeaux.
663. October, 2023. “Must Causal Generalizations and Laws of Nature be Empirical?” Sharif University of Technology. Tehran, Iran.

- 664-7. November, 2023. “Units of Selection,” “Adaptationism,” and “Chimpanzee Mind-Reading, Parsimony, and Intervening Variables.” Philosophy Department, University of Barcelona, and the last of these lectures also at University of Granada.
- 668-669. January, 2024. “Do Natural Selection and Random Mutation entail Gradualism?” and “Ockham’s Razors – When is the Simpler Theory Better?” Philosophy Department, Chapman University, Orange, California.
670. February, 2024. “Gene Drives and the War Against Malaria.” Workshop on Facing the Anthropocene – Inter-Disciplinary Approaches.” Stanford Humanities Center.
671. February, 2024. “Group Selection.” Collective Behavior Discussion Group, Biology Department, Stanford University.
672. February, 2024. “Selection among Multi-Species Communities.” Daniel Fisher’s and Ben Good’s microbiology laboratories, Stanford University.
673. April, 2024. “Additive and Nonadditive Models of the Evolution of Altruism – Why the Distinction Matters.” Multi-Level Selection Initiative, zoom meeting.
674. May, 2024. “Simpson’s Paradox and the Evolution of Altruism.” Multi-Level Selection Initiative, zoom meeting.
675. June, 2024. “Darwin on Group Selection.” Multi-Level Selection Initiative, zoom meeting.
676. June, 2024. “Multi-Level Selection Theory – Some History and Some Philosophy.” Symposium on Multi-Level Selection - A Foundational Theory for the Study of Prosocial Behaviors. 3rd Joint Congress on Evolutionary Biology, Montreal.
677. August, 2024. “Darwin, Common Ancestry, and the Law of Likelihood.” Conference on Probabilistic Reasoning in the Sciences, Marche Polytechnic University, Ancona, Italy.
678. September, 2024. “Darwin’s Theory of Sex Ratio Evolution and His Mysterious Retraction.” Ecology and Evolutionary Biology Department, University of Michigan, Ann Arbor,
679. October, 2024. “Darwin and Intelligent Design.” Zoom Conference, Philosophy Department, Sharif University of Technology. Tehran, Iran.
680. October, 2024. “Ockham’s Razor – When is the Simpler Theory Better?” Philosophy Department, Bates College, Lewiston, Maine.
681. April, 2025. “Darwin, Group Selection, and Simpson’s Paradox.” Darwin Club for the Social Sciences.
682. April, 2025. “Darwin’s Phylogenetic Reasoning.” Philosophy Conference, Inter-University Center. Dubrovnik, Croatia.
683. June, 2025. “Likelihoodism and Bayesianism.” Bayes Bootcamp, Philosophy Department, UW-Madison.
683. July, 2025. “When does Drift Dominate Selection? A Zeroing-out Criterion.” Biennial conference of the International Society for History, Philosophy, and Social Studies of Biology. Porto, Portugal.
684. October, 2025. “Darwin’s Reasoning about Common Ancestry.” Institute for History and Philosophy of Science and Technology, University of Toronto.
685. October, 2025. “Richard Lewontin – Biologist, Philosopher, Marxist.” Conference on Dialectical Biology, Institute for History and Philosophy of Science and Technology, University of Toronto.
- 686-7. October, 2025. “Scientific Realism, Empiricism, and Instrumentalism” and “Ockham’s Razor.” Middle

Eastern Technical University. Ankara, Turkey.

688-9. November, 2025. "Darwin's Reasoning About Common Ancestry" and "Retrospective and Prospective Comparisons of Causal Influence." Department of Data and Decision Science, Emory University, Atlanta, Georgia.

690. January, 2026. "Darwins Reasoning about Common Ancestry." Department of Logic and Philosophy of Science. University of California – Irvine.

February 2027. John Dewey Lecture, American Philosophical Association meeting, Denver.

RESEARCH SUPPORT

2019-2020. UW Sabbatical.

2012-2013. UW Sabbatical.

2005-2006. UW Sabbatical.

Summer, 2000-2003. "Adaptation and Phylogenetic Inertia." NSF Grant SES-9906997 (Steven Orzack, co-PI).

Summer, 1998. "Adaptation and Phylogenetic Inertia." One month's support from the UW Graduate School.

Fall, 1997. UW Sabbatical.

Summer, 1992 and 1993. "Evolutionary Altruism and the Units of Selection Problem." Salary support from National Science Foundation -- David S. Wilson co-PI (supplemented by UW-Madison Graduate School).

Summer, 1991. Salary Support from UW-Madison Graduate School for work on "Models of Cultural Evolution."

Spring, 1990. National Science Foundation Fellowship for work on "The Concept of Altruism in Evolutionary Theory and the Social Sciences."

Fall, 1989. UW Sabbatical.

Summer, 1989. Salary support from National Science Foundation supplemented by UW-Madison Graduate School) for work on "Evolutionary Altruism and Psychological Egoism."

Summer, 1988. Salary support from Research Committee, UW, Madison for work on "Evolutionary Altruism and Psychological Egoism".

Summer, 1987. Salary support from National Science Foundation, (supplemented by UW-Madison Graduate School) for completing *Reconstructing the Past: Parsimony, Evolution, and Inference*.

National Endowment for the Humanities Fellowship, 1986.

National Science Foundation Fellowship, 1985-86, supplemented by the UW-Madison Graduate School.

Summer, 1985. Salary support from UW-Madison Graduate School for research on foundations of phylogenetic inference.

Travel grants from A.C.L.S. and the Hewlett Committee, University of Wisconsin (1984).

Summer 1982, 1983, 1984. Salary Support from National Science Foundation (supplemented by UW-Madison Graduate School) for research on philosophy of biology.

H. I. Romnes Faculty Fellowship, 1982, from UW-Madison Graduate School.

Guggenheim Fellowship, 1980-81, for research on Philosophical Issues in Evolutionary Theory, supplemented by support from UW-Madison.

Summer salary support from UW-Madison, 1979, for research on philosophical aspects of the group selection controversy in evolutionary theory.

Summer stipend from National Endowment for the Humanities, 1978, for research on philosophical problems of linguistics.

Research Assistant support from University of Wisconsin-Madison, 1977-78, for research on philosophical problems of biology.

Summer salary support from Institute for Environmental Studies, 1977, for developing a philosophy of biology course.

Summer salary support from University of Wisconsin-Madison, 1976, for research on philosophical problems of cognitive psychology.

Summer salary support from University of Wisconsin-Madison, 1974.

PROFESSIONAL SERVICE

Chair-Elect, Chair, Retiring Chair, Section L (History and Philosophy of Science), American Association for the Advancement of Science, 2014-2017.

President, International Union of History and Philosophy of Science (Division of Logic, Methodology, and Philosophy of Science), 2012-2015.

Chair, Organizing Committee, POBAM (Philosophy of Biology at Madison) workshop 2010, 2012, 2014, 2016.

Chair, Philosophy of Biology Section Program Committee, 13th International Congress for Logic, Methodology, and Philosophy of Science. Beijing, China, 2007.

President, Philosophy of Science Association, 2002-2004.

President, American Philosophical Association Central Division, 1998-1999.

Secretary, International Union of History and Philosophy of Science, Division of Logic, Methodology, and Philosophy of Science, 1991-1999.

Member of Editorial Boards: *Philosophy of Science*, 2000-2003 and 1994-1999; *Brain and Mind*, 1999-; *Synthese*, 1999-present, *Biology and Philosophy* 2001-present.

Member, APA Romanell Lecture Selection Committee, 2000-2003.

Member, Advisory Committee to the Program Committee, Eastern Division of the American Philosophical Association, 1998-2001.

Member, APA Central Division Nominating Committee, 1995-96.

Member, Outside Review Committee for the philosophy department -- University of Maryland, College Park, 1992; Texas A&M, 2001.

Member, Program Committee, Philosophy of Science Association Biennial Meeting, Chicago, Illinois, October, 1992.

Chair, Program Committee, Biological Section, 9th International Congress in Logic, Methodology, and Philosophy of Science, Uppsala, Sweden, August 1991.

Member, Program Committee, APA Western Division Meeting, 1988.

Member, National Science Foundation Panel for History and Philosophy of Science, 1985-1988.

Governing Board, Philosophy of Science Association, 1985-1988.

Manuscript referee for Harvard University Press, University of Wisconsin Press, *Evolutionary Theory*, *Synthese*, *Systematic Zoology*, *Philosophy of Science*, *Behavior and Brain Sciences*, *Nous*, University of Minnesota Press, Cambridge University Press, Harcourt-Brace & Jovanovich, *Philosophical Review*, Oxford University Press, *Philosophy and Phenomenological Research*, *Research in Nursing and Health*, *Cladistics*, *American Naturalist*, *Biology and Philosophy*, MIT Press, *Pacific Philosophical Quarterly*, St. Martin's Press, *American Naturalist*, *Evolution*, *British Journal for the Philosophy of Science*, Princeton University Press, *Economics and Philosophy*, *Journal of Aesthetics and Art Criticism*, *Journal of Theoretical Biology*, *Synthese*, *Erkenntnis*, *Evolutionary Psychology*, *Cognition*, *Journal of Philosophical Research*, *Sociological Theory*, *Science*, *Proceedings of the National Academy of Sciences (USA)*, *Biosciences*, *Religious Studies*, *Bionomina*, *Philosophy and Theory in Biology*, *Theoria*, *Journal of the History of Biology*, *Journal of Evolutionary Biology*, *Genome Evolution and Biology*, *History and Philosophy of the Life Sciences*, *Hume Studies*, *Science and Education*, Yale University Press, *Progress in Molecular Biology and Biophysics*, *Foundations of Science*, *Religious Studies*.

Referee for grant proposals and for election to honorary societies: National Science Foundation (USA), John Simon Guggenheim Foundation, National Endowment for the Humanities, The Canada Council, Australian Research Council, The National Research Council (UK), The National Research Council (South Africa), The Templeton Foundation, the British Academy, Swiss National Science Foundation, French National Research Agency, Council for the Humanities of the Netherlands Organization for Scientific Research, University of Bucharest Institute for

Research in the Humanities.