

Kenneth L. Aizawa

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Home

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Department of Philosophy
Rutgers University - Newark
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175 University Avenue
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Education

1989 Ph.D. History and Philosophy of Science, University of Pittsburgh
Dissertation Topic: The Promise of Parallel Distributed Processing
1988 M.A. History and Philosophy of Science, University of Pittsburgh
1981-1983 A.B. Philosophy, University of Chicago
1979-1981 Case Western Reserve University

Areas of specialization: Cognitive science, philosophy of mind, philosophy of science, connectionism.

Areas of competence: Logic and computation theory, modern philosophy.

Employment

Spring 2019 – present, Affiliate of the Rutgers Center for Cognitive Science
Fall 2018 – present, Associate Graduate Faculty, Rutgers University – New Brunswick
Fall 2013 - present, Professor of Philosophy, Rutgers University – Newark
Department Chair, Fall 2016-Fall 2019
Fall 2001- Spring 2013. Charles T. Beaird Professor of Philosophy, Centenary College of Louisiana
On leave 2004-2005.
Department Chair, 1996-2007
November 2001-2004. Clinical Assistant Professor of Psychiatry, Louisiana Health Sciences Center - Shreveport
Spring 1997. Cognitive Science Post-doctoral Fellow, Department of Philosophy, University of Maryland, College Park
Fall, 1995-Spring 2001. Charles T. Beaird Associate Professor of Philosophy
January 1, 1996-August 2007, Philosophy Department Chair
Spring, 1995. Granted Tenure in the Department of Philosophy, Central Michigan University
Fall, 1992-Spring, 1995. Associate Professor of Philosophy, Central Michigan University
Winter 1990-Winter 1992. Assistant Professor of Philosophy, Central Michigan University
Fall 1989, Instructor. Central Michigan University
Winter 1989. Teaching Fellow, University of Pittsburgh
1986-1989. Teaching Fellow, Carnegie-Mellon University
1985-1988. Teaching Assistant, University of Pittsburgh

Academic Honors

Elected to Phi Kappa Phi, Central Michigan University (1994)
Elected to Phi Sigma Iota Foreign Language Honor Society, University of Pittsburgh (1985)
University of Pittsburgh Nationality Rooms Fellowship for Summer Study Abroad, Japan (1985)
Foreign Language and Area Studies Fellowship (in Japanese), University of Pittsburgh (1984-5)
University Center for International Studies Summer Fellowship (Japanese, 1984)
Mellon Foundation Pre-Doctoral Fellowship, University of Pittsburgh (1983-4)
Elected to Phi Beta Kappa, University of Chicago (1983)

Teaching Experience*Rutgers University, Newark*

PHIL 103: Introduction to Philosophy
 PHIL 212: Introduction to Ethics
 PHIL 380: Philosophy of Psychology
 PHIL 381: Philosophy of Neuroscience
 PHIL 385: Special Topics in Philosophy: Kinds, Laws, and Explanation
 PHIL 425: Philosophy of Science
 PHIL 446: Theories of Knowledge

University of Delaware

CGSC 270: Introduction to Cognitive Science

Centenary College of Louisiana

BIOL/NEUR/PSYC 317: Sensation and Perception
 CSC 101: Introduction to Computer Science
 PHIL 107: Introduction to Logic and Rational Method
 PHIL 206: Philosophy of Science
 PHIL 210: Symbolic Logic
 PHIL 290: Darwin and Darwinism
 PHIL 290: Language, Perception, and the Mind
 PHIL 290: Introduction to Neural Networks
 PHIL 290: Evolution of Language and Mind
 PHIL 302: History of Modern Philosophy
 PHIL 303: Philosophy of Religion
 PHIL 395: Evolution of Mind and Language
 PHIL 463: Contemporary Philosophy
 PHIL 483: Epistemology
 PHIL 483: Philosophy of Neuroscience
 PHIL 483: Intermediate Logic
 PSYC 101: General Psychology

Central Michigan University

PHL 118: Moral Problems
 PHL 325: Philosophy of Mind
 PHL 390: Philosophy of Science
 PHL 397A: Cognitive Science
 PHL 397A: Darwin and Darwinism

Thesis Committee Work

Juan Vega, Honors College, Rutgers University, Newark, 2018
 Benjamin White, Ph.D. Department of Philosophy, Temple University, 2016
 Ahmed Gadalla, Honors College, Rutgers University, Newark, 2015
 Marius Vilcu, Ph.D., Department of Computer Science, Simon Fraser University, 2005
 Christopher Curtis, M.S., Department of Psychology, Central Michigan University, 1995
 Charles Weaver, M.S., Department of Psychology, Central Michigan University, 1994
 Thomas Bishop, M.S., Department of Psychology, Central Michigan University, 1992

Scholarly Activity

Books

Compositional Abduction and Scientific Interpretation. Under contract with Cambridge University Press.

Scientific Composition and Metaphysical Ground. (Co-edited with Carl Gillett). (2016) London: Palgrave-Macmillan.

The Bounds of Cognition. (2008) (With Fred Adams) Boston, MA: Blackwell Publishers.

The Systematicity Arguments. (2003). Boston, MA: Kluwer Academic Publishers.

Articles

Hodgkin and Huxley's "Empirical Description" In *Philosophy of Biophysics*, Margarida Hermida and James Ladyman (Eds.) Cambridge, MA: MIT Press. (In Progress)

Systematicity, in Nesi, H. & Milin, P. (eds). *Encyclopedia of Language and Linguistics (Third Edition)*, Elsevier. (In progress.)

Confirmation, *The Blackwell Companion to Integrated History and Philosophy of Science*. (In progress.)

Constitutive Abduction (Under Review)

Composition and Hypothetical Reasoning (Under Review) In Oleksowicz, M., Wray, K.B., & Jarmużek, T. (eds.) *Hypothesis in Science*. Springer.

Polger and Shapiro on Realization and Multiple Realization (2022) *Review of Metaphysics*, 76(2), 325-44.

The Multiple Realization of Human Color Vision Revisited. (2022). *Frontiers in Psychology, section Cognitive Science*. DOI: 10.3389/fpsyg.2022.985267

Abduction and Composition (with Drew B. Headley). (2022) *Philosophy of Science*, 89(2), 268-82.

The Many Problems of Multiple Realization. (2020). *American Philosophical Quarterly*, 57(1), 3-16.

Some Theoretical and Empirical Background to Fodor's Systematicity Arguments, (2020), invited contribution to a special issue of *Theoria*. 35(1), 29-43.

Defending Pluralism about Compositional Explanations (with Carl Gillett). (2019). *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*, 78.

Embodied cognition and the extended mind. (with Fred Adams). (2009). In Sarah Robins, Symons, J., & Calvo, P. *Routledge Companion to the Philosophy of Psychology, 2nd edition*. New York, NY: Routledge (pp. 193-213).

Reprint of Embodied cognition and the extended mind. (with Fred Adams). (2009). In Garzon, P., & Symons, J. *Routledge Companion to the Philosophy of Psychology*. New York, NY: Routledge (pp. 193-213).

Clark on Language, Cognition, and Extended Cognition. (2019) Invited contribution for a book by Stapleton, M., Colombo, M., and Irvine, L. (eds.), *Andy Clark and His Critics*. Blackwell. (pp. 32-43).

What is 4E Cognition? (2018) In Albert Newen, Leon de Bruin & Gallagher Shaun (eds.), *The Oxford Handbook of 4E Cognition*, Oxford: Oxford University Press. (pp. 117-26).

Turing-equivalent computation at the "conception" of cognitive science. (2018). In Sprevak, M., and Colombo, M. (eds.) Invited contribution for the *Routledge Handbook of the Computational Mind*. (pp. 65-75).

Is Perceiving Bodily Action? (2018). *Phenomenology and the Cognitive Sciences*, 18(5), 933-46. DOI 10.1007/s11097-018-9592-9

Multiple Realization and Multiple “Ways” of Realization: A Progress Report. (2018) *Studies in History and Philosophy of Science*, 68: 3-9. <https://doi.org/10.1016/j.shpsa.2017.11.005>

Extended Cognition, Trust and Glue, and Knowledge. (2018) Invited contribution to Carter, J. A., Clark, A., Kallestrup, J., Palermos, S. O., and Pritchard, D. (Eds.) *Extended Epistemology*, Oxford University Press. (pp. 64-78).

Multiple realization, autonomy, and integration. (2018). Invited contribution to David M. Kaplan (ed.) *Explanation and Integration in the Mind and Brain Sciences*. (pp. 215-235).

Cognition and Behavior. (2017) *Synthese*, 194, pp. 4269–4288. Invited contribution to a special issue, edited by Cameron Buckner and Ellen Fridland, on “What is Cognition?” DOI: 10.1007/s11229-014-0645-5

Compositional Explanation: Dimensioned Realization, New Mechanism, and Ground, (2016). In Aizawa, K., and Gillett, C., (eds.) *Scientific Composition and Metaphysical Ground*. Palgrave-Macmillan. (pp. 75-90)

Introduction: Vertical Relations in Science, Philosophy, and the World: Understanding the New Debates over Verticality. (with Carl Gillett) (2016). In Aizawa, K., and Gillett, C., (eds.) *Scientific Composition and Metaphysical Ground*. Palgrave-Macmillan. (pp. 1-38)

Enactive, Extended, Embodied, and Embedded Cognition. In McLaughlin, Brian P., editor. *Philosophy: Mind*. Macmillan Interdisciplinary Handbooks: Philosophy series. Farmington Hills, MI: Macmillan Reference USA/Gale, a Cengage Company, 2016. (pp. 395-416).

Desafio empírico a teorias dinâmicas de percepção e emoção. (2015). In Coelho, J., and Broens, M. (eds.) *Encontro Com As Ciências Cognitivas: Cognição, Emoção, E Ação*. Cultura Acadêmica: São Paulo, Brazil

Realization, Reduction and Emergence (2015). (with Carl Gillett). Invited contribution J. Clausen, and N. Levy (eds.), *Springer Handbook on Neuroethics*. New York, NY: Springer. (pp. 49-62).

What is this Cognition that is Supposed to be Embodied? (2014). *Philosophical Psychology*, 28(6): 755-75. DOI: 10.1080/09515089.2013.875280

The Enactivist Revolution. (2014). Invited contribution to Enactivism: Arguments & Applications, a special issue of *AVANT*, Vol. V, No. 2/2014, ISSN: 2082-6710 avant.edu.pl/en, DOI: 10.12849/50202014.0109.0002. (Editors of the Issue: Tomasz Komendziński, Przemysław Nowakowski, Witold Wachowski)

Extended Cognition. (2014). Invited contribution to Lawrence Shapiro (Ed.) *Routledge Handbook on Embodied Cognition*. New York, NY: Routledge. (pp. 31-8).

Editors’ introduction to “The Material Basis of Cognition,” (2013). *Minds and Machines*, 23(3), 277-86. doi: 10.1007/s11023-013-9312-8.

Multiple Realizability by Compensatory Differences. (2013). *European Journal for Philosophy of Science*. Volume 3, Issue 1, pp. 69-86. DOI: 10.1007/s13194-012-0058-6

“Warren McCulloch’s Turn to Cybernetics: What Walter Pitts Contributed” (2012). *Interdisciplinary Science Reviews*, 37(3), pp. 206-17. Invited contribution to a special issue of *Interdisciplinary Science Reviews*, edited by Tara Abraham, on Warren McCulloch and His Circle.

“Distinguishing Virtue Epistemology and Extended Cognition”, (2012) Invited contribution to *Philosophical Explorations*, 15, pp. 91-107. Special Issue on “Extended Cognition and Epistemology,” edited by Andy Clark, Duncan Pritchard, and Krist Vaesen.

Connectionism. In *Oxford Bibliographies Online: Philosophy*. Pritchard, Duncan (ed.) New York, NY: Oxford University Press. Article launched June 29, 2011. (Revised edition, 2016)

The Autonomy of Psychology in the Age of Neuroscience (with Carl Gillett). (2011). In Illari, P.M., Russo, F., and Williamson, J. (eds.) *Causality in the Sciences*. Oxford University Press. (pp. 202-23).

The Value of Cognitivism in Thinking about Extended Cognition. (2010). Special Issue of *Phenomenology and the Cognitive Sciences*, 9 (4), 579-603.

Computation in Cognitive Science: It is not all about Turing-equivalent computation. (2010). *Studies in History and Philosophy of Science* 41, 227–236. Invited contribution to a special issue on computation and cognitive science.

The Coupling-Constitution Fallacy Revisited, (2010), Invited Contribution to a Special Issue of *Cognitive Systems Research*, 11, (4), 332-342, on extended mind, edited by Leslie Marsh.

Consciousness: Don't Give up on the Brain (2010). In Pierfrancesco, B., Kiverstein, J., & Phemister, P. (Eds.) *The Metaphysics of Consciousness: Royal Institute of Philosophy Supplement*, 67. (pp. 263-284).

The Boundaries Still Stand: A Reply to Fisher (2010). *Journal of Mind & Behavior*, 31 (1&2), 37-47.

Defending the Bounds of Cognition (with Fred Adams). (2010). In Menary, R., (Ed.). *The Extended Mind*, Cambridge, MA: MIT Press. (pp. 67-89).

Submission invited by Richard Menary. Andy Clark has written a reply to this paper for this collection.

Causal Theories of Mental Content, (with Fred Adams), *Stanford Encyclopedia of Philosophy*. (2010)

Levels, Individual Variation, Massive Multiple Realization in Neurobiology (with Carl Gillett). (2009) Bickle, J. (Ed.) *Oxford Handbook of Philosophy and Neuroscience*. (pp. 539-581).

Embodied cognition and the extended mind. (with Fred Adams). (2009). In Garzon, P., & Symons, J. *Routledge Companion to the Philosophy of Psychology*. New York, NY: Routledge (pp. 193-213).

The (Multiple) Realization of Psychological and Other Properties in the Sciences. (with Carl Gillett). (2009). *Mind & Language*, 24, 181-208.

Neuroscience and Multiple Realization: A Reply to Bechtel and Mundale (2009), *Synthese*, 167, 493-510.

Editor's Introduction for *Synthese*. Special Issue on Philosophy and Neuroscience. (2009). *Synthese*, 167, 433-438.

Why the Mind is Still in the Head. (with Fred Adams) (2009). In Robbins, P., and Aydede, M. (Eds.). *Cambridge Handbook on Situated Cognition*. New York, NY: Cambridge University Press. (pp. 78-95).

Warren Sturgis McCulloch (2008). In N. Koertge (Ed.) *New Dictionary of Scientific Biography, Volume 1*. New York: Charles Scribner's Sons, pp. 406-409.

Korbinian Brodmann (2008). In N. Koertge (Ed.) *New Dictionary of Scientific Biography, Volume 5*. New York: Charles Scribner's Sons, pp. 76-9.

- Walter Pitts and "A Logical Calculus" (with Mark Schlatter) (2007). *Synthese*, 162, 235-250.
- Understanding the Embodiment of Perception. (2007). *Journal of Philosophy*, 104, 5-25.
- The Biochemistry of Memory Consolidation: Model Systems for the Philosophy of Mind (2007) *Synthese*, 155, 65-98.
- Understanding the Embodiment of Perception. APA Proceedings and Addresses 79 (3):5-25 (2006).
- Defending Non-Derived Content. (2005). (with Fred Adams). *Philosophical Psychology*, 18, 661-669.
- Cognitive Architecture: The Structure of Cognitive Representations. (2003). Warfield, T., and Stich, S., *Blackwell's Companion to the Mind*. pp. 172-189.
- The Bounds of Cognition (2001) (with Fred Adams). *Philosophical Psychology*, 14, 43-64.
 "Die Grenzen Der Kognition." In: *Philosophie der Verkörperung*. Edited by Joerg Fingerhut, Rebekka Hufendiek and Markus Wild. Translated by Sophia Pick and Beate Suttterlüty. Berlin: Suhrkamp, 2013, pp. 224-259.
- Connectionist Rules: A Rejoinder to Horgan and Tienson's *Connectionism and the Philosophy of Psychology*. *Acta Analytica*, 22, 59-85. (1999).
- Rock Beats Scissors: Historicalism Fights Back. (1997) (with Fred Adams). *Analysis*, 57, 273-281.
- Fodor's Asymmetric Causal Dependency Theory and Proximal Projections. (1997) (with Fred Adams). *Southern Journal of Philosophy*, 35, 433-437.
- Explaining Systematicity. (1997). *Mind and Language*, 12, 115-136.
- Exhibiting versus Explaining Systematicity: A Reply to Hadley and Hayward, *Minds and Machines*, 7, 39-55. (1997).
- The Role of the Systematicity Argument in Classicism and Connectionism. In O'Nuallain, S. (Ed.). *Two Sciences of Mind: Readings in Cognitive Science and Consciousness*. Amsterdam, The Netherlands: John Benjamins. (pp. 197-218). (1997).
- The Gap between Science and Social Policy in *The Bell Curve*. *American Behavioral Scientist*, 39, 84-97. A special issue on "The Bell Curve: Laying bare the resurgence of scientific racism," edited by Robert Newby. (1995).
- Some Neural Network Theorizing Before McCulloch: Nicolas Rashevsky's Mathematical Biophysics. In Mira-Mira, J., (Ed.). *Proceedings of the International Conference on Brain Processes, Theories, and Models*. Cambridge, MA: MIT Press. (pp. 64-70). (1995).
- Representations without Rules, Connectionism, and the Syntactic Argument. *Synthese*, 101, 465-492. (1994).
- Lloyd's Dialectical Theory of Reference. *Mind & Language*, 9, 1-24. (1994).
- Fodorian Semantics. (with Fred Adams) In Warfield, T., & Stich, S. (Eds.). *Mental Representation: A Reader*. (1994). Cambridge, MA: Blackwell. (pp. 223-242).
- "X" means X: Fodor/Warfield Semantics. (with Fred Adams) *Minds and Machines*, 4, 215-231. (1994).
- Fodorian Semantics, Pathologies, and Block's Problem. (with Fred Adams) *Minds and Machines* 3, 97-104. (1993).
- Connectionism and Artificial Intelligence: History and Philosophical Interpretation. *Journal for Experimental and Theoretical Artificial Intelligence*, 4, 295-313. (1992).
 Reprinted in Ronald Chrisly (Ed.), *Artificial Intelligence: Critical Concepts in Cognitive Science*, vol. 2. London:

Routledge/Taylor & Francis. December 2000.

'X' means X: Semantics Fodor-Style. (with Fred Adams) *Minds and Machines*, 2, 175-183. (1992).

Cognitive Science. In Fred Adams and Leemon McHenry, *Reflections on Philosophy*. St. Martin's Press. (1992). (pp. 187-204).

Rules in Programming Languages and Networks. (with Fred Adams and Gary Fuller) In J. Dinsmore (Ed.). *The Symbolic and Connectionist Paradigms: Closing the Gap*. Hillsdale, New Jersey: Lawrence Erlbaum Associates. (1992). (pp. 49-67).

Biology and Sufficiency in Connectionist Theory. In J. Dinsmore (Ed.) *The Symbolic and Connectionist Paradigms: Closing the Gap*. Hillsdale, New Jersey: Lawrence Erlbaum Associates. (1992). (pp. 69-88).

Rules in Connectionism and Computationalism. (with Fred Adams and Gary Fuller) *Proceedings of the Third Midwest Artificial Intelligence and Cognitive Science Society Conference*, April 12-14, 1991. (pp. 6-10).

Dreyfus and Dreyfus on the History of Connectionism. *Proceedings of the Third Midwest Artificial Intelligence and Cognitive Science Society Conference*, April 12-14, 1991. (pp. 1-5).

Rules in Connectionism and Computationalism. (with Fred Adams and Gary Fuller) *Proceedings of the 24th Hawaii International Conference on Systems Science*, vol. 3. 1991. (pp. 359-367).

Unreduced Mechanisms in Neural Network Theory. *Proceedings of the Second Midwest Artificial Intelligence and Cognitive Science Society Conference*, March 30 - April 1, 1990. (pp. 1-7).

Book Reviews

A Synthesis of Work in Cognitive Science, Review of *Surfing Uncertainty: Prediction, Action, and the Embodied Mind*. *Metascience*, 25: 487-90. (2016).

The Oxford Handbook of Philosophy of Cognitive Science, Notre Dame Philosophical Reviews. (2013)

Supersizing the Mind: Embodiment, Action, and Cognitive Extension, by Andy Clark. *Philosophical Quarterly*, 60 (240): 662-664. (2010)

The New Phrenology: The Limits of Localizing Cognitive Processes in the Brain, by William Uttal. *Minds and Machines*, 14, pp. 263-273 (2004).

The Brain-shaped Mind: What the Brain can Tell us About the Mind, by Naomi Goldblum. *Philosophical Psychology*, 16, 344-347. (2003).

The Mind within the Net: Models of Learning, Thinking, and Acting, by Manfred Spitzer. *Minds and Machines*, 11, 445-448. (2001).

Rethinking Innateness: A Connectionist Perspective on Development, by Jeffrey Elman, Elizabeth Bates, Mark Johnson, Annette Karmiloff-Smith, Domenico Parisi, and Kim Plunkett, and *Exercises in Rethinking Innateness: A Handbook for Connectionist Simulations*. by Kim Plunkett and Jeffrey Elman. *Minds and Machines*, 9, 447-456. (1999).

Connectionism and the Philosophy of Psychology, by Terry Horgan and John Tienson. *Minds and Machines*, 7, 270-273. (1999).

Naturalizing the Mind, by Fred Dretske. *Minds and Machines*, 6, 425-430. (1996).

Associative Engines: Connectionism, Concepts, and Representational Change, by Andy Clark. *Minds and Machines*, 5, 417-420. (1995).

Philosophy and Connectionist Theory, by William Ramsey, Stephen Stich, and David Rumelhart. *Mind and Language*, 7, 286-297. (1992).

Conference and Workshop Presentations

“Singular Compositional Abduction” Invited talk for the Philosophy of Science and Epistemology conference. Hong Kong University of Science and Technology, Hong Kong. June 27-28, 2024.

“Hodgkin and Huxley’s Use of Singular Compositional Abduction” Keynote address for the Deep South Philosophy and Neuroscience Memphis in Spring 2 Meeting. April 12-13, 2024. Rhodes College, Memphis, TN.

“Singular Compositional Abduction” Invited talk for a symposium on Scientific Explanation at the Pacific Division Meeting of the American Philosophical Association. March 20-23, 2024.

“Composition and Hypothetical Reasoning,” International Society for the Philosophy of the Sciences of the Mind 2023 webconference, November 24, 2023 - December 2, 2023.

“Hodgkin and Huxley and the Limits of Explanation,” Part of a Symposium on Hodgkin and Huxley’s “Quantitative Description,” along with co-symposiasts John Bickle and James Bower, for the International Society for the Philosophy of the Sciences of the Mind 2023 webconference, November 24, 2023 - December 2, 2023.

“Singular Dynamic Compositional Abduction,” PSA2023 Around the World, November 5, 11, 17, 2023.

“Hodgkin and Huxley and the Limits of Explanation,” Deep South Neuroscience and Philosophy Workshop, September 28-30, 2023. Pensacola Beach, FL.

“Singular Dynamic Compositional Abduction,” The 9th biennial meeting of the European Philosophy of Science Association. September 20-23, 2023, Belgrade, Serbia. (Withdrawn for personal reasons.)

“Hodgkin and Huxley’s ‘Empirical Description’,” Philosophy of Biophysics Workshop, September 14-15, 2023, Department of Philosophy, University of Bristol.

“Implementation: A Small-g Grounding Relation at Work in Science” Society for the Metaphysics of Science, August 10-12, 2023, Halifax, Canada.

“The Hodgkin-Huxley-Katz Arguments for the Sodium Hypothesis” International Society for the History, Philosophy, and Social Studies of Biology, July 9-15, 2023, Toronto, Canada.

“Constitutive Mechanistic Abduction,” Neurocognitive Foundations of Mind: An Online Conference. October 21-22 and 28-29, 2022.

“Abductive Reasoning in Neuroscience,” Hypothesis in science. On the 550th anniversary of the birth of Nicolaus Copernicus. Nicolaus Copernicus University. Torun, Poland. October 19-21, 2022.

“A Material Theory of Abduction?,” Seventh Annual Meeting of the Society for the Metaphysics of Science, University of Bristol, Bristol, UK. September 6-8, 2022.

“Are the Historical Sciences Distinctively Abductive?” The Future of the Past: Philosophical Issues in the “Historical Sciences.” The Sidney M. Edelstein Center for the History and Philosophy of Science, Technology, and Medicine, Hebrew University. Jerusalem, Israel. August 7-8, 2022.

“Embodied Cognition: Some Philosophical Proposals,” Santa Fe Institute workshop "Embodied, Situated, and Grounded Intelligence: Implications for AI". April 12-15, 2022.

“Compositional Relations and Their Discovery”, (with Drew B. Headley), Fifth Annual Conference of the Society for the Metaphysics of Science, University of Toronto, Toronto, Canada, November 7-9, 2019.

“Compositional Relations and Their Discovery”, (with Drew B. Headley), Rutgers/Newark-Seton Hall Newark Workshop on Compositional Explanation in Biology and the Neurosciences, October 25-26, 2019

“Compositional Relations and their Discovery,” (with Drew B. Headley), Rutgers-Bristol Workshop on the Metaphysical Unity of Science, June 10-11, 2019.

“New Directions in Compositional Explanation: Two Case Studies,” for Physicalism and Science: A Philosophy Workshop at the University of Louisville. May 20-21, 2019.

“Polger and Shapiro on Multiple Realization” 2019 Annual Meeting of the Southern Society for Philosophy and Psychology. Cincinnati, OH. March 6-9, 2019.

“Cognition, Behavior, and Paralysis,” Tokyo Workshop on “Agency and Cognition,” Tokyo, University of Tokyo, February 17-21, 2019.

“Polger and Shapiro's Concepts of Realization and Multiple Realization,” 26th Biennial Meeting of the Philosophy of Science Association, Seattle, WA, from November 1-4, 2018.

“The Duality in *The Multiple Realization Book*” 4th Annual Society for the Metaphysics of Science Conference. Milan, Italy, August 22-24, 2018.

“Polger and Shapiro’s Relata of Realization.” Morris Colloquium on the Self and its Realizations at University of Colorado-Boulder, June 16-18, 2018.

“Polger and Shapiro’s Concepts of Realization” Rutgers, Newark Composition Workshop, May 30-31, 2018.

Commentary on Stuart Glennan’s *The New Mechanical Philosophy*. Author meets Critics session at the 2018 Meeting of the Southern Society for Philosophy and Psychology, San Antonio, TX, March 15-17, 2018.

“The Ontology and Methodology of Mechanistic Explanation,” Rutgers University, Newark. Workshop on Compositional Explanation. Newark, NJ. October 4, 2017.

“The Ontology and Methodology of Mechanistic Explanation,” (with Carl Gillett). Rutgers University, Newark. Workshop on the Ontology of Compositional Explanation. Newark, NJ. May 19-20, 2017.

“Extended Cognition and Extended Knowledge,” 2017 Meeting of the Southern Society for Philosophy and Psychology. Savannah, GA. March 22-24, 2017.

“Perception, Action, and Embodiment,” CEU-Rutgers MIND Workshop, Budapest, Hungary. January 6-7, 2017.

“Multiple Realization as Convergence of Properties” Third Lisbon International Conference on Philosophy of Science: Contemporary Issues. Lisbon, Portugal. December 14-16, 2016.

“Non-Causal Determination in Science: Compositional Realization or Ground?” 25th Biennial Meeting of the Philosophy of Science Association, Atlanta, GA. November 3-5, 2016.

“Really Rethinking Multiple Realization,” 5th Ernst Mach Workshop” Contemporary Perspectives on Multiple Realization, Institute of Philosophy of the Czech Academy of Sciences, Prague. June 30--July 1, 2016.

“The Many Problems of Multiple Realization,” Metaphysics of Science Workshop, University of Wisconsin – Madison, June 17-18, 2016.

“The Ontology and Methodology of Mechanistic Explanation,” (with Carl Gillett) 50 Shapes of Scientific Explanation Conference, University of Ghent, Ghent, Belgium, November 13-14, 2015

“The Ontology and Methodology of Mechanistic Explanation,” (with Carl Gillett) Central States Philosophical Association, Lexington, KY. November 5-6, 2015.

“Perception, Action, and Embodiment,” Situating Cognition: Agency, Affect, and Extension, 2nd International Conference in Trends in Interdisciplinary Studies, University of Warsaw – Institute of Philosophy, Warsaw, Poland. October 15-18, 2015.

“Perception and Bodily Action,” Cognition, Consciousness, and Behavior Conference, University of Louisville, Louisville, KY. October 9-10, 2015

“The Ontology and Methodology of Compositional Explanation,” Workshop on “Explaining Cognition,” July 21-23, 2015. University of Stirling, United Kingdom.

“Experiments for Sensorimotor Theory” for the “The Sensorimotor Theory of Perception and Consciousness: Developments and Open Questions,” Association for the Scientific Study of Consciousness Satellite Workshop, July 4-5, 2015, Paris, France.

“Extended Cognition, Trust and Glue, and Knowledge” for the First Annual Conference on Extended Knowledge, April 22-24, 2015, University of Edinburgh, Edinburgh, United Kingdom.

“For Abundant Multiple Realization” For a submitted symposium with Thomas Polger on Abundant versus Sparse Multiple Realization for the 2015 Meeting of the Southern Society for Philosophy and Psychology, April 2-4, 2015.

“Compositional Realization: How is Multiple Realization Possible?” Workshop on Emergence and Reduction in the Sciences, which will take place on October 23-25, 2014, at the Institute for the History and Philosophy of Science and Technology, Paris, France.

“Multiple Realization and Multiple ‘Ways’ of Realization: A Progress Report.” Realizability and Levels of Reality Workshop, Institute for the History and Philosophy of Science and Technology. Paris, France. June 10-13, 2014.

“Multiple Realization and Multiple ‘Ways’ of Realization: A Progress Report.” Topics in Explanation, Dependence, and Understanding, June 5-6, 2014, Essen, Germany.

“Mechanistic Explanation Does Not Solve the Causation-Constitution Fallacy” 2013 meeting of the Southern Society for Philosophy and Psychology. February 6-9, 2014, Charleston, SC.

“How is Multiple Realization Possible?” 2013 meeting of the International Society for the History, Philosophy, and Social Studies of Biology, Montpellier, France, 7-11 July 2013.

“How is Multiple Realization Possible?” Lausanne Workshop on embodiment, realization and function at the University of Lausanne, Switzerland, July 1-3, 2013.

“Cognition and Behavior.” What is Cognition? Workshop at Ruhr-University, Bochum. June 27-29, 2013.

“An Empirical Challenge to Movement Theories of Perception and Emotion,” Invited contribution to the Brazilian International Meeting of Cognitive Science, Bauru, Brazil, December 7-10, 2012.

“Multiple Realization by Compensatory Differences,” 23rd Biennial Meeting of the Philosophy of Science Association. San Diego, CA. November 15-17, 2012.

“Noë’s Commitment to Movement in Perception.” International Association for Phenomenology and the Cognitive Sciences. Rochester, NY. November 1, 2012.

“The Autonomy of Psychology in the Age of Neuroscience, Part II”, Invited contribution to a workshop, “Explaining Mental Phenomena: Perspectives from the Philosophy of Mind, Psychology, and Neuroscience”, at the University of Tübingen, July 23, 2012.

“What is Embodied?,” Invited contribution for a workshop on “Interfaces of the Mind,” Ruhr-University, Bochum. July 19-21, 2012.

“How is the Multiple Realization of Very Specific Properties Possible?” Invited contribution to a workshop on “Supervenience, Mechanisms and Proportionality” at the Witten/Herdecke University, Witten, Germany, July 16, 2012.

“The Autonomy of Psychology in the Age of Neuroscience, Part II”, for a 2012 workshop on “Multiple Realization,” in Berlin, Germany. July 12-14, 2012.

“Is Emotion Kinesthetic?” (with Brian McLaughlin), Invited contribution to a workshop on Giovanna Colombetti’s *The Feeling Body: Affective Science Meets the Enactive Mind*. Department of Cognition Science, University of Osnabrück, June 19, 2012.

“Distinguishing Virtue Epistemology and Extended Cognition”, Invited contribution to the “Epistemology and Extended Cognition Workshop,” June 6-7, 2012, Amsterdam, The Netherlands.

“Does Operationalism Give the Mark of the Cognitive?” Invited contribution to a workshop on “The Mark of the Cognitive,” University of Groningen. May 11, 2012.

“Multiple Realization by Compensatory Adjustments”. For a 2011 workshop in neuroscience and cognition, University of Delaware, September 16-17, 2011.

“The Post-Connectionist Era: Tough Times to be Talking Systematicity”, Systematicity and Post-Connectionism Workshop. Almería, Spain, May 19-21, 2011.

“Multiple Realization by Compensatory Adjustments,” Workshop on Computation, Realization, and the Brain, May 15-20, 2011, Institute for Advanced Studies, Hebrew University, Jerusalem, Israel.

“Multiple Realization by Compensatory Adjustments,” Workshop on Multiple Realization in the Special Sciences, Department of Philosophy, University of Lausanne, Switzerland, May 11, 2011.

“Active Perception and Cognition”. Invited symposium on “Ecological Psychology” 105th meeting of the Southern Society for Philosophy and Psychology, March 10-12, 2011.

“Rupert’s Extended Cognition” 104th meeting of the Southern Society for Philosophy and Psychology, April 15-17, 2010. Atlanta, GA.

“Coupling, Constitution, and Cognition,” for a 2010 workshop on Neuroscience, Realization, and Reduction at the University of Alabama, Birmingham. February 26-27, 2010.

“The Autonomy of Psychology in the Age of Neuroscience”, for “Pitt-Paris II: Emergence and Reduction in the Sciences,” Center for Philosophy of Science, University of Pittsburgh, December 11-13, 2009.

Workshop on Robert Rupert's, *Cognitive Systems and the Extended Mind*. Department of Cognitive Science, University of Osnabrück, Osnabrück, Germany. November 26, 2009.

“Intracranial Cognition is Inevitable,” invited contribution for the “The Extended Mind Thesis in Theory and Applications” conference at the Center for Interdisciplinary Research, University of Bielefeld, November 23-25, 2009.

“Do Scientists Block Multiple Realization by Sub-Typing Properties?” 25th Boulder Conference on the History and Philosophy of Science, University of Colorado, Boulder, October 9-11, 2009.

“Strong and Weak Enactivism” Second Annual Interdisciplinary Approach to Philosophical Issues Conference. University of Southern Alabama, September 25-26, 2009.

“The Autonomy of Psychology in the Age of Neuroscience”, Mechanisms and Causality in the Sciences, September 9-11, 2009. University of Kent, Canterbury.

“Consciousness: Don't Give up on the Brain.” Invited paper for the “The Metaphysics of Consciousness: An International Conference in Honour of Timothy L. S. Sprigge (1932-2007)” Edinburgh 7-9, July 2009.

“Do Scientists Block Multiple Realization by Sub-Typing Properties?” Society for Philosophy and Psychology. Indiana University, June 12-14, 2009.

“Do Scientists Block Multiple Realization by Sub-Typing Properties?” Mid South Philosophy Conference. University of Memphis, Memphis, TN. April 17-18, 2009,

“The Autonomy of Psychology in the Age of Neuroscience” Presidential Address for the Southern Society for Philosophy and Psychology, April 9-11, 2009. Savannah, GA.

“Specificity and Multiple Realization” for the 2008 “Neuroscience and Multiple Realization” workshop at the University of Cincinnati, October 24-25, 2008.

“The Needs of Extended Cognition”, 2008 Meeting of the Joint Sessions of the Mind Association and the Aristotelian Society. July 11-14, 2008. University of Aberdeen, Aberdeen, Scotland.

“The (Multiple) Realization of Psychological and other Properties in the Sciences.” (with Carl Gillett). 2008 Meeting of the British Society for the Philosophy of Science, July 10-11, 2008. University of St. Andrews, St. Andrews, Scotland.

“Computation and Cognitive Science: It's not all about Turing Equivalent Computation.” King's College, Cambridge University. July 7-8, 2008.

“Representation and Cognition” 2008 Meeting of the Southern Society for Philosophy and Psychology. New Orleans, LA. March 20-22, 2008.

“The Coupling-Constitution Fallacy” Special session for the Mid-South Philosophy Conference. University of Memphis, Memphis, TN. February 22-23, 2008.

“Internalism and Externalism,” for a workshop in the Philosophy Department at the University of Trondheim, November 20, 2007.

“Representation and Cognition” Invited paper for a conference entitled “Cognition: Embodied, Embedded, Enactive, and

Extended” Orlando, FL, October 20-24, 2007.

“Neuroscience and Multiple Realization: A Reply to Bechtel and Mundale,” for a workshop, “Neuroscience and the Mind-Brain Relation,” at Centenary College, October 18-19, 2007.

“Representation and Cognition” Sixth Annual Summer Interdisciplinary Conference. Kalymnos, Greece. June 26-July 1, 2007.

“The (Multiple) Realization of Psychological Properties in the Sciences” (with Carl Gillett) 2007 Meeting of the Southern Society for Philosophy and Psychology. Atlanta, GA. April 5-7, 2007.

“Paralysis and the Enactive Theory of Perception,” 2006 Meeting of the Central States Philosophical Association. Memphis, TN. October 13-14, 2006.

“Why the Coupling-Constitution Fallacy is Still a Problem.” *Extended Mind 2*. University of Hertfordshire. July 10-12, 2006.

“Extended Cognition and Cognitive Systems,” Fifth Annual Summer Interdisciplinary Conference. Andalsnes, Norway. July 2-7, 2006.

“Biochemistry and Multiple Realization,” Invited presentation for the inaugural meeting of the Society for the Metaphysics of Science. Central Division Meetings of the American Philosophical Association. Chicago, IL. April 26-29, 2006.

“Extended Cognition and Cognitive Systems.” 2006 Meeting of the Southern Society for Philosophy and Psychology. Charleston, SC. April 13-15, 2006.

“Paralysis and the Enactive Theory of Perception,” *Toward a Science of Consciousness*, Tucson, AZ. April 4-8, 2006.

“Understanding the Embodiment of Perception.” 2006 Pacific Division Meeting of the American Philosophical Association. March 22-26, 2006. Portland, OR.

“The Biochemistry of Memory Consolidation and Multiple Realization.” 2005 meeting of the Society for Philosophy and Psychology meeting, June 9-12, 2005. Wake Forest University, Winston-Salem, NC.

“The Coupling-Constitution Fallacy” (with Fred Adams). Joint meeting of the Ohio Philosophical Association and the Kentucky Philosophical Association, April 9, 2005, at the University of Cincinnati.

“Protein Structure Multiply Realizes Memory Consolidation.” 2005 Meeting of the Southern Society for Philosophy and Psychology. Durham, NC, March 24-26, 2005.

“Memory consolidation is multiply realized: A response to Bickle.” 2004 Annual Meeting of the Central States Philosophical Association, October 22-23, 2004, at the University of Iowa. Iowa City, IA.

Embedded figure and face feature-matching deficits in Autism spectrum disorder (Second author with Michael F. Glabus, James C Patterson II, M. Ann Springer, Eduardo C. Gonzalez-Toledo, Nanette Massey, Michael McGill, & David L. Irwin). Society for Neuroscience, Fall 2004. San Diego, CA.

“The Coupling-Constitution Fallacy” (with Fred Adams), 2004 Joint Session of the Aristotelian Society and Mind Association. University of Kent at Canterbury, July 9-12, 2004.

“Split Stimuli Induction of the McCollough Effect” (with Megan McWaters) 2003 Meeting of the Southern Society for Philosophy and Psychology. Atlanta, GA, April 17-19, 2003.

“Martin Davies’s Theory of Rule Following” 2003 Meeting of the Southern Society for Philosophy and Psychology. Atlanta, GA, April 17-19, 2003.

“Further Analysis of Paul Smolensky’s Tensor Product Theory” 2002 Meeting of the Southern Society for Philosophy and Psychology, Nashville, TN March 28-30, 2002.

“The Systematicity Arguments Revisited” 2001 Meeting of the Southern Society for Philosophy and Psychology, St Louis, MO, April 12-14, 2001.

“How Knowing about the Brain could Fail to Guide Psychology.” Invited paper for the 11th Annual meeting of the Midwest Artificial Intelligence and Cognitive Science Society 2001. Fayetteville, AR.

“Rethinking the Systematicity Arguments” Third European Congress of Analytical Philosophy. Maribor, Slovenia. June 29-July 4, 1999.

“Rethinking the Systematicity Arguments” 1999 Pacific Division Meeting of the American Philosophical Association. Berkeley, CA March 31-April 3, 1999.

“Cummins on Systematicity” 1998 Meeting of the Southern Society for Philosophy and Psychology, April 9-11, 1998. New Orleans, LA.

“Connectionist Rules: A Rejoinder to Horgan and Tienson’s *Connectionism and the Philosophy of Psychology*.” Conference on Horgan and Tienson’s *Connectionism and the Philosophy of Psychology*. University of Ljubljana, Slovenia. August 1997.

“Fodor’s Systematicity Argument” 10th International Congress of Logic, Methodology, and Philosophy of Science. Florence, Italy. August 19-25, 1995.

“The Role of the Systematicity Argument in Classicism and Connectionism” 1995 Artificial Intelligence and Simulation of Behavior Conference Workshop, “Reaching for Mind,” April 3-4, 1995. Sheffield, UK.

“Does LOT Explain Systematicity?” 1994 Central States Philosophical Association meeting, October 28-9, 1994.

“Explaining Systematicity.” 1994 Pacific Division Meeting of The American Philosophical Association, March 30-April 2, 1994. Los Angeles, CA.

“Connectionism, Representations without Rules, and the Syntactic Argument.” Eighty-fifth Annual Meetings of the Southern Society for Philosophy and Psychology, April 8-11, 1993. New Orleans, LA.

“What is Connectionism? A Philosophical Perspective from the History of Science.” University of Dayton Interdisciplinary Colloquium, *Recent Debates in the Cognitive Science Literature*, March 26-27, 1993. Dayton, OH.

“A Cure for Disjunctivitis” with Fred Adams and Gary Fuller. Central States Philosophical Association Meetings, November 1991. St. Louis, MO.

“Neuropsychology Then and Now: David Hartley and Connectionism,” Fifteenth Annual Meeting of the Northeast American Society for Eighteenth Century Studies, October 31 - November 3, 1991.

“The History of Connectionism,” presented as part of the Marine Biological Laboratory Fellows Research Conference for the Summer of 1991. Woods Hole, MA.

“Fodor’s Asymmetric Causal Theory of Reference” with Fred Adams, Canadian Society for History and Philosophy of Science, May 24-26, 1991. London, Canada.

“The Neuropsychologies of Rene Descartes and David Hartley,” Canadian Society for History and Philosophy of Science, May 24-26, 1991. London, Canada.

“‘X’ means X” with Fred Adams. Annual Meeting of the Southern Society for Philosophy and Psychology, March 27-30, 1991. Atlanta, GA.

“Parallel Distributed Processing and Genetic Algorithms,” Fourth International Conference for Computers and Philosophy, Carnegie-Mellon University, August 1989. Pittsburgh, PA.

Departmental Seminars/Colloquia

University of Glasgow, May 21, 2024.

“The Hodgkin-Huxley Arguments for the Sodium Hypothesis,” Department of Philosophy. Edinburgh University. May, 22, 2024.

“The Hodgkin-Huxley Arguments for the Sodium Hypothesis,” Lunch Time Talk, Center for the Philosophy of Science. University of Pittsburgh, February 6, 2024.

“The Many Problems of Multiple Realization,” Department of Philosophy II, Ruhr University, Bochum, German, October 25, 2016.

“Constitution,” Department of Philosophy, University of Milan, Italy, October 27, 2016.

“Perception and Actions of the Body,” Department of Philosophy, University of Milan, Italy, October 18, 2016.

“The Enactivist Revolution,” Department of Philosophy, University of Compiègne, Compiègne, France, July 6, 2015.

“The Autonomy of Psychology,” Center for Molecular and Behavioral Neuroscience,” Rutgers University, Newark. February 19, 2014.

“How is Multiple Realization Possible?” Cognitive Science Speakers Series, City University of New York, November 8, 2013.

“The Autonomy of Realized Properties,” Department of Philosophy, University of Texas, El Paso, February 10, 2013.

“The Autonomy of Realized Properties,” Department of Philosophy, Temple University, February 8, 2013.

“The Autonomy of Psychology in the Age of Neuroscience,” Department of Philosophy, Rutgers University - Newark, February 6, 2013.

“Empathy, Mirror Neurons, and Imitation”, Faculty of Philosophy II, Ruhr University, Bochum. June 19, 2012.

“Noë’s Strong and Weak Activism,” Graduate Student Seminar for the Faculty of Philosophy II, Ruhr University, Bochum. June 11, 2012.

“How is the Multiple Realization of Very Specific Properties Possible?” Graduate Student Seminar for the Faculty of Philosophy II, Ruhr University, Bochum. June 11, 2012.

“The Extended Cognition Debate,” Department of Cognitive Science, Nijmegen University, May 14, 2012.

“The Autonomy of Psychology in the Age of Neuroscience,” Department of Philosophy, University of South Carolina, January 12, 2012.

- “Noë’s Strong and Weak Enactivism,” Department of Philosophy, University of Portland, January 24, 2011.
- “Empathy, Mirror Neurons and Imitation,” for the University of Memphis Fall Cognitive Science Seminar, September 29, 2010.
- “The Autonomy of Psychology in the Age of Neuroscience,” Department of Philosophy, University of Rochester, February 23, 2009.
- “The Autonomy of Psychology in the Age of Neuroscience”, Department of Cognitive Science, University of Osnabrück, Osnabrück, Germany. November 18, 2009.
- “There is no Naked Mind,” Department of Philosophy, University of Texas, Arlington, February 20, 2009.
- “There is No Naked Mind,” for the Biology and Psychology Departments, Randolph-Macon College. March 17, 2008.
- “The Massive Multiple Realization of Psychological Properties,” Department of Philosophy, Georgia State University, January 18, 2008.
- “Countering Corporeal Correlates of Consciousness,” Department of Philosophy, Georgia State University, January 17, 2008.
- “Explaining The Systematicity of an Agent in a Microworld: A Commentary on Frank, Haselager, & van Rooij,” for the Philosophy Department at the Radboud University Nijmegen. November 23, 2007.
- “Three Challenges for Extended Cognition,” for the Philosophy Department at the Radboud University Nijmegen. November 22, 2007.
- “Paralysis and the Enactive Theory of Perception,” Department of Linguistics and Cognitive Science, University of Delaware, October 23, 2006.
- “Biochemistry and the Multiple Realization of Cognition” for the Philosophy Department at Texas A&M University, February 7, 2005.
- “Biochemistry and the Multiple Realization of Cognition” for the Philosophy Department at the University of Kentucky. November 12, 2004.
- “Biochemistry and the Multiple Realization of Cognition” for the Philosophy Department at the University of Cincinnati. October 15, 2004.
- “The Dilemma Fodor and Pylyshyn Face” for the Philosophy Department at the University of Delaware. April 11, 2003.
- Invited lecture as post-doctoral fellow in cognitive science for the Philosophy Department at the University of Maryland-College Park, 1997.
- Graduate seminar in the Philosophy of Language at the University of South Carolina. February 20, 1995.
- “Systematicity and the Language of Thought.” Department of Philosophy Colloquium, University of Texas--Austin, March 11, 1994.
- “Connectionism, Computationalism, and Rules.” Center for Cognitive Science, University of Texas--Austin, March 10, 1994.
- “Some History of Connectionism and Artificial Intelligence,” Alma College Departments of Philosophy and Psychology, November 1991.

“Cognitive Science, Cognitivism, and Connectionism,” Butler University Cognitive Science Planning Committee, March 7, 1990.

Activities as Commentator, Session Chair, etc.

Commentator on March Couch’s “Some Problems for Polger and Shapiro,” Third Annual Meeting of the Society for the Metaphysics of Science, New York, New York, October 5-7, 2017.

Commentator on François Pellet’s “Form, Matter, and Function in the Metaphysics of Mechanisms: Toward an Aggregative Definition of Mechanisms” Second Annual Meeting of the Society for the Metaphysics of Science, Geneva, Switzerland, September 15-17, 2016.

Commentator on Karina Vold’s “The what and where of mental states: a new argument for the extended mind thesis”. Minds Online Conference 2016.

Commentator on Christopher Richards’ “Grounding and the Problem of Entry.” 2015 Meeting of the Central States Philosophical Association. Lexington, KY. November 6-7, 2015.

Commentator on Mark Couch’s “How do Mechanistic Explanations in Neuroscience Explain?” 2015 Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA. April 2-4, 2015.

Session chair for a contributed session, “Perception and Cognition,” at the 2015 Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA. April 2-4, 2015.

Discussant (along with Julian Kiverstein and Søren Overgaard) on Søren Overgaard’s “Merleau-Ponty on Mindreading: Exposing the Myth of the Mental Given.” For the Subjectivity as Interaction: In the footsteps of Merleau-Ponty” conference. June 6-7, 2013. Radboud University, Nijmegen.

Commentator on Drew Blackmore’ “Clark and Chalmers versus Adams and Aizawa - Why even Extended Cognition cannot Guarantee Extended Mind”. 2013 Annual Meeting of the Southern Society for Philosophy and Psychology, Austin, TX, February 28- March 2, 2013.

Multiple Realization Panel Discussion Chair, “Philosophy and the Brain: Computation, realization, and the Brain Workshop”. Institute for Advanced Study, Hebrew University, Jerusalem. May 16-18, 2011.

Commentator on Natika Newton's “Missing the Point about Cognition”. 2009 Mid South Philosophy Conference, University of Memphis.

Session Chair, Contributed Papers Session on the Philosophy of Cognitive Science, “Method and Measurement.” 2008 Philosophy of Science Association Meeting, November 6-9, 2008.

Commentator on Benjamin Hart's “The Mind Argument Defended: A Response to Finch and Warfield” 2008 Mid South Philosophy Conference. University of Memphis.

Commentator on Tony Chemero and Michael Silberstein's “Defending Extended Cognition” 2007 Society for Philosophy and Psychology. York University, June 14-17, 2007.

Commentator on Ralph Ellis’s “Reconciling the enactive mind with causal closure: The causal structure of self-organizing systems” at the 2007 Annual Meeting of the Mid-South Philosophy Conference, Memphis, TN. February 23-24, 2007.

Commentator on Marica Bernstein’s “The Bickle-Aizawa contest: Protein identity and multiple realization” at the 2005 Annual Meeting of the Mid-South Philosophy Conference, Memphis, TN. February 17-20, 2005.

Commentator on Aaron Kostko and John Bickle's "Social behaviors and brain interventions: New strategies for reductionists" at the 2005 Annual Meeting of the Mid-South Philosophy Society, Memphis, TN. February 17-20, 2005.

Commentator on Kent Johnson's "On the Systematicity of Language," 2004 Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA. April 8-10, 2004.

Commentator on Patrick Grim's "Making Meaning Happen." 2003 Annual Meeting of the Central Division of the American Philosophical Association. April 23-27, 2003. Cleveland, OH.

Commentator on John Bickle's "Multiple Realizability, Meet Cognitive Neuroscience." 2002 Annual Meeting of the Southern Society for Philosophy and Psychology, Nashville, TN March 28-30, 2002

Session Chair, Morality in the 21st Century, A Conference Sponsored by The American Philosophical Association and the Philosophy Department of the University of Delaware, Newark, DE, October 26-28, 2001.

Commentator on William Schonbein's "Classicism, Connectionism, and the Importance of Triangles." For the Central States Philosophical Association meetings, October 12-13, 2001, at the Washington University in St. Louis. St. Louis, MO.

Commentator on Andrew Wilson's "A Methodological Alternative to the Assumption of Mental Representation." For the Society for Philosophy and Psychology meetings, June 19-21, at the University of Cincinnati. Cincinnati, OH.

Commentator on William Schonbein's "Implementation Bites Back: Algorithms, Equivalence, and Implementation." For the Central Division Meetings of the American Philosophical Association, Minneapolis, MN, May 3-5, 2001.

Session Chair for Thomas Bontly's "Individualistic Syntactic Engines." For the Central Division Meetings of the American Philosophical Association, Pittsburgh, PA. April 23-26, 1997.

Comments on Istvan Berkeley's "PDP Networks can Provide Models that are not Mere Implementations of Classical Theories."

Session chair for Nick Georgalis' "Rethinking Burge's Thought Experiment". Central States Philosophical Association, October 14-15, 1995.

Comments on Heather Gert's "Resemblances in Wittgenstein and Connectionism," Central Division Meetings of the American Philosophical Association, April 1995. Chicago, IL.

Comments on James Garson's "Chaotic Emergence and the Language of Thought," Pacific Division Meetings of the American Philosophical Association, March 1995. San Francisco, CA.

Panelist for CMU panel discussion of *The Bell Curve*, March 1, 1995. Mt. Pleasant, MI.

Session Chair for John Bickle's "Connectionism, Reduction, and Multiple Realizability." Central States Philosophical Association, October 1994.

Comments on John Bickle's "Cognitivism qua *Scientific* Revolution: Lessons for Anti-reductionists," Annual Meeting of the Society for Philosophy and Psychology, June 1993. Vancouver, Canada.

Session Chair, "Searle's Connection Principle" by Kirk Ludwig, Eighty-fourth Annual Meeting of the Southern Society for Philosophy and Psychology, April 1992.

Comments on James Garson's "Chaotic Cognition: Prospects for Symbolic Processing in a Dynamic Mind," Pacific Division

Meetings of the American Philosophical Association, March 25-29, 1992. Portland, OR.

Panel discussion on Symbolism and Connectionism at the Third Midwest Artificial Intelligence and Cognitive Science Society Meeting, April 11-12, 1991. Carbondale, IL.

Session Chair, "Artificial Intelligence" Sixth International Conference of the Society for Philosophy and Technology, March 8-10, 1991.

Grants, Fellowships and Contracts

October 2016	Lodging and travel expenses, Senior Fellowship, University of Milan.
June 1-July 15, 2014	4,500 euros. Fellow, Explanatory Power Project, Duisberg-Essen University.
June-July, 2013	1,500 euros. Fellowship, Center for Mind, Brain, and Cognitive Evolution. Ruhr University, Bochum.
May-July, 2012	7,500 euros. Senior Fellowship, Center for Mind, Brain, and Cognitive Evolution, Ruhr University, Bochum.
May-August, 2012	\$1,250 Centenary Summer Research Funds.
April 2, 2012	\$36,120. Louisiana Board of Regents Support Fund Grant for 65 iPads for philosophy courses.
April 2009	\$45,171. Louisiana Board of Regents, Awards to Louisiana Artists and Scholars (ATLAS) sabbatical match.
March 2005	\$5,000. National Endowment for the Humanities Summer Stipend.
April 2003	\$29,675. Louisiana Education Quality Enhancement Fund for a vision science laboratory.
April 2003	\$2,000. 2003-2004 John C. Slater Library Resident Fellow, American Philosophical Society.
August 2001	\$400,000. Louisiana Board of Regents Endowed Professorship Program. Co-authored with Dr. David Coppola a grant to fund a \$1,000,000 Eminent Scholars chair in Psychology.
May 1997	\$18,000. Louisiana Education Quality Enhancement Fund for a cognitive science/ computer science computer laboratory.
February, 1995	Central Michigan University Research Professorship. One semester's paid leave with \$1,000 stipend. (Declined.)
July-August, 1993	\$2,900 National Endowment for the Humanities Summer Institute: The Nature of Meaning. Rutgers University.
June-July 1991	\$740 Robert A. Brown, Jr. Memorial Readership. Marine Biological Laboratory, Woods Hole, MA

Professional Growth

Teaching presentations

"Central Michigan University's Freshman Residential Life Program" (with Michelle Howard). 14th Annual National Conference on The Freshman Year Experience, February 18-21, 1995.

Professional Service

2023-24, Co-Editor in Chief with Manuel Lazaro and Michał Oleksowicz, Special issue of *Scientia et Fides* on the metaphysics of science, 2024.

2022-2023, Co-Organizer with Michael Townsend Hicks of the first Society for the Metaphysics of Science Summer School.

2022-2023, President-elect, Society for the Metaphysics of Science.

2022-23, Program committee for the Biennial meeting of the Philosophy of Science Association. This involved reviewing 10 symposia proposals of about ten pages each, 18 papers of 15-20 pages for presentation, and seven papers of about 20 pages for publication.

2016, 2018 grant proposal reviewer for the Netherlands Organization for Scientific Research (NWO).

2015-2018, Secretary/Treasurer for the Society for the Metaphysics of Science

2015, Program Chair, Society for the Metaphysics of Science

2015, Local Arrangements Coordinator, Society for the Metaphysics of Science

2015, Griffith Award Committee, Southern Society for Philosophy and Psychology.

2015, Workshop organizer, "Composition and Ground." Rutgers University, Newark.

2011-2016, *Humanities* Editorial Board
 Editorial recommendation (2015)
 2009-2010, Past-President, Southern Society for Philosophy and Psychology
 2008-2009, President, Southern Society for Philosophy and Psychology
 2008-2010, Hotel Negotiator, Southern Society for Philosophy and Psychology
 2008 Society for Philosophy and Psychology Program Committee
 2008-present, Assessment Editor, *Journal of Mind and Behavior*.
 2008 Philosophy of Science Association Program Committee.
 2007-2008 President-Elect, Southern Society for Philosophy and Psychology.
 2006-present. Webmaster, Society for the Metaphysics of Science.
 2003-2007. Secretary, Southern Society for Philosophy and Psychology.
 2003-2005. Program Committee, Southern Society for Philosophy and Psychology.
 1999-2005. Inaugural member of the Editorial Board of *Brain and Mind: A Transdisciplinary Journal of Neuroscience and Neurophilosophy*.
 1998-2001. Council of the Southern Society for Philosophy and Psychology
 One of three referees for the 1999 philosophy program.
 One of three referees for the 2000 philosophy program.
 Philosophy Archivist 1998-present.

Refereeing

Article referee for *Scientia et Fides*, 2023.
 Article referee for *Journal of Philosophy*, 2021, 2022.
 Article referee for *Croatian Journal of Philosophy*, 2020.
 Article referee for *Philosophy*, 2020.
 Article referee for *Nous*, 2020.
 Article referee for *Pacific Philosophical Quarterly*, 2019, 2020.
 Book proposal referee for Oxford University Press, 2019.
 Article referee for *International Studies in the Philosophy of Science*, 2019.
 Article referee for *Res Philosophica*, 2018.
 Article referee for Neural Mechanisms Online: New Challenges in the Philosophy of Neuroscience, 2018.
 Article referee for *Diametros*, 2018.
 Article referee for *Cognition*, 2017.
 Article referee for *Theoria*, 2017.
 Article referee for *Theory and Psychology*, 2017.
 Article referee for *Inquiry: An Interdisciplinary Journal of Philosophy*, 2017.
 Article referee for *Analysis*, 2017, 2018, 2020, 2023.
 Article referee for *Philosophical Explorations*, 2016, 2023.
 Article referee for *The Journal of Cognitive Science*, 2016.
 Article referee for *Theory, Culture, and Society*. 2015.
 Grant Proposal Referee for the National Science Center, Poland, 2014, 2018.
 Article referee for *Australasian Journal of Philosophy*, 2014, 2016, 2022.
 Article referee for *Noûs*, 2014.
 Article referee for *Philosophical Papers*, 2014.
 Book proposal referee for Routledge, 2013.
 Article referee for a *Topoi* special issue on “Embodiment and Empathy,” 2013.
 Conference reviewer for a paper for “Computation in Europe,” to be held at the University of Milan-Bicocca, July 1st-5th, 2013.
 Workshop reviewer for two papers for the “What is Cognition?” workshop held at the Ruhr University, Bochum, June 27-29, 2013.
 Article referee for *Mind*, 2013, 2015.
 Chapter commentator/referee for Paco Calvo and John Symons, *Systematicity in the Post-Connectionist Era*. MIT Press. 2012.
 Scientific Committee of the 2nd World Sustainability Forum, 2012.
 Article referee for *Cognitive Science*, 2011.
 Guest Editor, with Frederick Adams, for a special issue of *Minds and Machines*, “The Material Basis of Cognition and

Neuroscience”, 2012.
 Article referee for *Humanities*, 2011 (twice), 2016.
 Article referee for the *Southern Journal of Philosophy*, 2011, 2015.
 Article referee for the *Journal of Consciousness Studies*, 2011, 2015, 2016.
 Scientific Committee of the 1st World Sustainability Forum, 2011.
 Referee regarding a new book edition for Yale University Press, 2011.
 Article referee for *Erkenntnis*, 2011, 2013 (twice).
 Book proposal referee for Cambridge University Press, 2011.
 Article referee for *The Philosophical Quarterly*, 2011, 2013, 2017, 2023.
 Grant reviewer for the Israel Science Foundation, 2010.
 Grant reviewer for Natural Sciences and Engineering Research Council of Canada Discovery Grant, 2010.
 Article referee for *Review of Philosophy and Psychology*, 2010, 2011 (four times), 2012, 2021.
 Article referee for a special issue of *Cognitive Systems Research*, 2010.
 Article referee for *Studies in History and Philosophy of Science*, 2010, 2016 (twice).
 Article referee for *Philosophical Studies*, 2010, 2011, 2017.
 Article referee for *Public Library of Science: Computational Biology*, 2010 (three times), 2011 (twice), 2012.
 Article referee for the *Journal of Mind and Behavior*, 2010, 2014, 2020.
 Bibliography referee for Oxford Bibliographies Online, Philosophy of Cognitive Science, 2010.
 Article referee for *Philosophy of Science*, 2009, (Twice), 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2021.
 Article referee for *European Journal for the Philosophy of Science*, 2009, 2017, 2018, 2023.
 Proposal Referee for the National Science Foundation, 2009, 2011, 2012, 2016, 2022.
 Article referee for *Philosophia*, 2009 (Twice), 2014, 2016, 2017, 2020 (three times).
 Grant proposal referee for the Social Sciences and Humanities Research Council of Canada, 2008, 2014, 2015.
 Journal proposal referee for Oxford University Press, 2008.
 Program Committee for the 2008 Biennial Philosophy of Science Association Meeting.
 Proposal Referee for the National Science Foundation, 2008
 Conference paper referee for the Society for Philosophy and Psychology, 2008, 2009, 2018.
 Article referee for *Phenomenology and the Cognitive Sciences*. 2007, 2008, 2011, 2013, 2016 (twice), 2023 (twice), 2024.
 Article referee for *British Journal for the Philosophy of Science*. 2007, 2010 (twice). 2013, 2014, 2015, 2016, 2017. 2020, 2022 (three reviews).
 Article referee for *Dialectica*. 2007.
 Article referee for a special issue of *Cognitive Systems Research*, edited by Leslie Marsh. 2007.
 Article referee for a special issue of *Pragmatics and Cognition*, edited by Pim Haselager. 2007.
 Article referee for a special issue of *Philosophical Psychology* on “Life, robots, and emergence,” edited by Pim Haselager. 2005.
 Conference paper referee for the Society for Philosophy and Psychology, 2005, 2013 (three papers)
 Article referee for a special edition of *History and Philosophy of Psychology* entitled “Cognitive Science: The State of the Art”, 2003.
 Paid book referee for MIT Press, 2003.
 Article referee for *Journal of Philosophical Research*, 2003, 2014.
 Article referee for *American Philosophical Quarterly*. 2002, 2021.
 Paid book referee for Cambridge University Press, 2001.
 Article referee for *Journal of the History of the Behavioral Sciences*, 2001.
 Article referee for *Brain and Mind*, 2000, 2003.
 Conference paper referee for the Southern Society for Philosophy and Psychology, 1999, 2000, 2004, 2005, 2008, 2011, 2012, 2014 (three papers), 2015 (2 papers), 2018 (2 papers).
 Article referee for *Philosophical Psychology*, 1996, 1999 (twice), 2004, 2006, 2008, 2011, 2012, 2015, 2016, 2017 (twice), 2018, 2021.
 Article referee for *Informatica*, 1995 (twice).
 Article referee for *Minds and Machines*, 1993 (twice), 1995 (3 times), 1996, 1997, 1999 (twice), 2003, 2011, 2012, 2013, 2014, 2015 (twice), 2016, 2018.
 Conference paper referee for Central States Philosophical Association, 1994.

Article referee for *Mind & Language*, 1993, 1994, 2004, 2010, 2012, 2013, 2018 (twice), 2022.

Paid book referee for Princeton University Press, 1993.

Article referee for *Synthese*, 1991, 1993, 2000, 2003, 2004 (twice), 2010, 2013 (twice), 2014 (three times), 2015 (four times), 2016 (four times), 2017 (three times), 2018, 2019, 2021 (twice), 2022 (five times), 2023.

Paid book referee for introductory philosophy text for St. Martin's Press, New York, 1991.

Journal proposal referee for Kluwer, 1990, 1998.

College and University Service

Rutgers University, Newark

Philosophy Department Administrative Coordinator Search Committee, 2023

Philosophy Department Part-Time Lecturer Search Committee, 2023.

Philosophy Department Administrative Coordinator Search Committee, 2021

Philosophy Department Peer Evaluation Committee Chair, Spring 2020

Appointments and Promotions, School of Arts and Sciences Newark, 2019-2022.

Philosophy Department Chair, 2016-2019.

Budget and Planning, Faculty of Arts and Sciences Newark. 2017-2020.

Appointments and Promotions, Faculty of Arts and Sciences Newark, 2015-18.

2015, Rutgers University, Newark, Philosophy Department Promotion Committee Chair for Raffaella De Rosa's promotion to professor.

2015, Rutgers University, Newark, Psychology Department Reading Committee for Kent Harber's promotion to professor.

General Education Committee, Faculty of Arts and Sciences Newark, 2013-2015

Jeff Buechner, Non-Tenure Track Departmental Promotion Review Committee, 2013-14, 2014-15.

Centenary College of Louisiana

Convocations Committee, 2011-13. (Chair, 2012-2013)

Institutional Review Board, 2010-2012.

Phi Beta Kappa contact for Centenary's application to Phi Beta Kappa. Fall 2006

Human Subjects Committee, 2006-2007.

Academic Policy Committee, 2005-2006.

Ad Hoc Workload Parity Committee, Summer 2004.

Academic Policy Committee, 2003-2004, Chair.

Phi Beta Kappa contact for Centenary's application to Phi Beta Kappa. Fall 2003.

Tenure Review Chair, Loren Demerath, Sociology, 2002-2003.

Third-Year Review Chair, Michelle Wolkomir, Sociology, 2002-2003.

James Chair of Psychology Search Committee, Fall 2002.

Faculty Development Committee, Chair, 2001-2002.

Philosophy Department Search Committee, Chair, 2000-2002.

Psychology Department Search Committee, 2000-2001 (two positions).

Sociology Department Search Committee, 1999-2000.

Academic Policy Committee, 1999-2001.

Course Review and Petitions Committee, 1998-1999.

Faculty Appeals Committee Panel, Secretary, Summer 1998.

Student Research Forum Judge, Spring 1998.

Whited Chair of Neurobiology Search Committee, 1997-98.

Allen Harvey Broyles Chair of Mathematics and Computer Science Search Committee, 1997-98.

Dr. George Newtown, Liberal Arts Chair Appeals Observer, Summer 1997.

T.L. James Chair of Religion Search Committee, Fall 1996.

T.L. James Chair of Religion Search Committee, 1995-96.

Chair, Spring 1996.

Student Research Forum Judge, Spring 1996.

Student Government Association Advisor, Fall 1996.

Humanities Division Chair, Fall 1996, 1997-98.

ACE/Kellogg Panelist, 1996-1998.

Central Michigan University

General Education Council, 1993-95.

Secretary, 1993-94.

Chair, 1994-95.

Cognitive Science Major Program Committee, 1994-95.

Department of Philosophy Equipment Committee, 1989-95.

Conferences and Seminars Committee, 1991-1994.

Chairman, 1993-94.

Department of Philosophy Speakers Committee, 1990-3.

Arts & Sciences Steering Committee, 1990-3.

Arts & Sciences Dean Search Committee, 1992-93.

Fencing Club Academic Advisor, 1990-1.

Academic Honors

Voted Honorary Life Member of the Southern Society for Philosophy and Psychology (2023). As of the 114th annual meeting in 2023, the Society has elected only seven philosophers as Honorary Life Members.

2022 Referee of the Year, *British Journal for the Philosophy of Science*. (BJPS receives over 500 submissions a year. Sometimes over 700.)

Elected to Phi Kappa Phi, Central Michigan University (1994)

Elected to Phi Sigma Iota Foreign Language Honor Fraternity, University of Pittsburgh (1985)

University of Pittsburgh Nationality Rooms Fellowship for Summer Study Abroad, Japan (1985)

Foreign Language and Area Studies Fellowship (in Japanese), University of Pittsburgh (1984-5)

University Center for International Studies Summer Fellowship (Japanese, 1984)

Mellon Foundation Pre-Doctoral Fellowship, University of Pittsburgh (1983-4)

Elected to Phi Beta Kappa, University of Chicago (1983)

References

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