



Mark Povich

Visiting Assistant Professor

Department of Philosophy

532 Lattimore Hall

Rochester, New York 14627-0078

Email: mapovich@gmail.com Phone: (314) 713-4769

EDUCATION

Ph.D., Philosophy-Neuroscience-Psychology

Washington University in St. Louis, St. Louis, MO

May 2017

B.A., Philosophy

Washington University in St. Louis, St. Louis, MO

December 2010

AREAS OF SPECIALIZATION

Philosophy of science, philosophy of psychology, philosophy of neuroscience.

AREAS OF COMPETENCE

Philosophy of mind, philosophy of mathematics, feminist philosophy, ethics.

PUBLICATIONS

12. (Forthcoming). Craver, Carl F., Stuart Glennan, and Mark Povich. "Constitutive Relevance and Mutual Manipulability Revisited," *Synthese*.

11. (Forthcoming). Povich, Mark. "Information and Explanation: An Inconsistent Triad and Solution," *European Journal for the Philosophy of Science*.

10. (Forthcoming). Povich, Mark. "Modality and Constitution in Distinctively Mathematical Explanations," *European Journal for the Philosophy of Science*. <https://doi.org/10.1007/s13194-020-00292-y>

9. (Forthcoming). Povich, Mark. "Mechanistic Explanation in Psychology," in *The SAGE Handbook of Theoretical Psychology*. (Eds.) Hank Stam and Huib Looren de Jong.

8. (Forthcoming). Povich, Mark. "The Narrow Ontic Counterfactual Account of Distinctively Mathematical Explanation," *British Journal for the Philosophy of Science*.
<https://doi.org/10.1093/bjps/axz008>

7. (2019). Povich, Mark. "Model-Based Cognitive Neuroscience: Multifield Mechanistic Integration in Practice," *Theory & Psychology*, 29(5), 640–656. <https://doi.org/10.1177/0959354319863880>

6. (2018). Povich, Mark and Carl F. Craver. "Review of Marc Lange's *Because Without Cause: Non-Causal Explanations in Science and Mathematics*," *Philosophical Review*, 127, 422–6.
<https://doi.org/10.1215/00318108-6718870>

5. (2018). Povich, Mark. "Social Knowledge and Supervenience Revisited," *Erkenntnis*, 83, 1033–43.
<https://doi.org/10.1007/s10670-017-9926-y>

4. (2018). Povich, Mark. "Minimal Models and the Generalized Ontic Conception of Scientific Explanation," *British Journal for the Philosophy of Science*, 69, 117–37.
<https://doi.org/10.1093/bjps/axw019>

3. (2017). Craver, Carl F. and Mark Povich. "The Directionality of Distinctively Mathematical Explanations," *Studies in History and Philosophy of Science Part A*, 63, 31–8.
<https://doi.org/10.1016/j.shpsa.2017.04.005>

2. (2017). Povich, Mark and Carl F. Craver. "Mechanistic Levels, Reduction, and Emergence," in *The Routledge Handbook of Mechanisms and Mechanical Philosophy*. (Eds.) Stuart Glennan and Phyllis Illari, 185–97.

1. (2015). Povich, Mark. "Mechanisms and Model-Based Functional Magnetic Resonance Imaging," *Philosophy of Science*, 82, 1035–46. <https://doi.org/10.1086/683438>

WORK IN PROGRESS

Povich, Mark. *Model and World: Generalizing the Ontic Conception of Scientific Explanation*. Book manuscript in progress; proposal submitted.

Povich, Mark. "The Expressive Role of Mathematics in Scientific Explanation". Under review: R&R.

Povich, Mark. "A Scheme Foiled". Under review.

Povich, Mark. "Deflating Denotation".

Povich, Mark. "Semantic Independence: A Normativist Explanation of the Strength of Necessity".

Lee, Sangil, Mark Povich, Ryan Hoopes, Joel Myerson, and Leonard Green. "The Effect of Symbolic Information on Delay Discounting of Real Liquid Rewards".

CONFERENCE TALKS AND PRESENTATIONS

"The Expressive Role of Mathematics in Scientific Explanation". Colloquium at University of Rochester. April 23, 2021.

"A Normativist Account of Distinctively Mathematical Explanation". 27th Biennial Meeting of the Philosophy of Science Association in Baltimore, MD. November 19-22, 2020.

"Mechanistic Explanation in the Cognitive and Life Sciences". Workshop on Compositional Explanation in Biology and the Neurosciences. Seton Hall University, South Orange, New Jersey. October 25-26, 2019.

"Models and Mechanisms in Cognitive Science". Mechanisms in Indiana – A Roundtable and Workshop. Butler University, Indianapolis, Indiana. March 22-23, 2019.

"Comments on William D'Alessandro's 'Viewing-as Explanations and Ontic Dependence'." American Philosophical Association Eastern Division Meeting in New York, NY. January 7-10, 2019.

"The Narrow Counterfactual Account of Distinctively Mathematical Explanation". (Poster). 26th Biennial Meeting of the Philosophy of Science Association in Seattle, WA. November 1-4, 2018.

"The Directionality of Distinctively Mathematical Explanations" (co-authored with and presented by Carl Craver). Colloquium at Macquarie University, Sydney, Australia. October 24, 2017.

“Comments on Emily Prychitko’s ‘Establishing Constitutive Relevance in Mechanisms’.” The Society for Metaphysics of Science at Fordham University. October 5-7, 2017.

“Model and World: Generalizing the Ontic Conception of Scientific Explanation”. Colloquium at Washington University in St. Louis. April 13, 2017.

“Information and Explanation: An Inconsistent Triad”. (Poster). 25th Biennial Meeting of the Philosophy of Science Association in Atlanta, GA. November 3-5, 2016.

“Implications of Robustness for the Theory of Explanation”. (Poster). Robustness in Neurological Systems Conference, Center for Philosophy of Science, University of Pittsburgh. November 14, 2015.

“Accuracy and Explanation in Minimal Models”. Saint Louis Area Philosophy of Science Association (SLAPSA) conference in St. Louis, MO. February 28, 2015.

“Mechanisms and Model-Based fMRI”. 24th Biennial Meeting of the Philosophy of Science Association in Chicago, IL. November 7, 2014.

“The Effect of Symbolic Information on Delay Discounting of Real Liquid Rewards”. Sangil Lee, Mark A. Povich, Joel Myerson, and Leonard Green. (Poster). Society for the Quantitative Analyses of Behavior (SQAB) 36th Annual Meeting in Minneapolis, MN. May 23-25, 2013.

TEACHING EXPERIENCE

Visiting Assistant Professor

University of Rochester, Rochester, NY Fall 2020 – Spring 2021
 Courses: Philosophy of Brain and Cognitive Science (Fall 2020); Logic (Fall 2020); Philosophy of Science (Fall 2020).

Tulane University, New Orleans, LA Fall 2019 – Spring 2020
 Courses: Introduction to Philosophy (Fall 2019); Foundations of Cognitive Science (Fall 2019); Mind, Machines, and Experience (Spring 2020); Consciousness (Spring 2020).

Lecturer

Washington University in St. Louis, St. Louis, MO

Fall 2017 – Spring 2019

Courses: Present Moral Problems (Spring 2019); Great Philosophers (Fall 2017, Fall 2018); Introduction to Cognitive Science (Spring 2018, Fall 2018, Spring 2019); Philosophy of Scientific Reasoning (Spring 2018); Philosophy-Neuroscience-Psychology Reading Class on Behaviorism (Spring 2018); Inquiry into the Cognitive Sciences (Fall 2017).

Graduate Teaching Assistant

Washington University in St. Louis, St. Louis, MO

Fall 2012 – Spring 2016

Courses: Introduction to Cognitive Science; Philosophy of Language; Mind, Brain, and Behavior; Present Moral Problems; Problems in Philosophy.

OTHER SERVICE AND ACTIVITY

Refereeing: *Analysis, British Journal for the Philosophy of Science, Erkenntnis, Foundations of Science, Inquiry, Journal of Philosophy, Mind, Philosophia Mathematica, Philosophical Psychology, The Philosophical Quarterly, Philosophical Studies, Philosophy of Science, Studies in History and Philosophy of Science, Synthese, Tereoma, Thought, TopiCS in Cognitive Science, Topoi.*

Member and researcher in Dr. Leonard Green's Behavioral Economics Laboratory, 2010–2018. My research investigated why humans exhibit a phenomenon called the amount effect (i.e., larger rewards are discounted less steeply), whereas nonhuman animals do not.

Graduate Student Senator (representative of the Philosophy-Neuroscience-Psychology Program to the Graduate Student Senate), Washington University in St. Louis, 2012–2016. Responsibilities included monthly meetings to discuss issues affecting graduate students, including healthcare and housing.

Coordinator of the PB&Joy Food Drive, a community service event of the Gephardt Institute for Civic and Community Engagement at Washington University in St. Louis, Spring 2014 and Spring 2015. I coordinated the location and pickup of a bin in which various goods could be donated.

Co-founder (with Christiane Merritt) of the Feminist Philosophy Reading Group, Washington University in St. Louis, 2013–2016. We met weekly to discuss readings in feminist philosophy. Past readings

included *Out from the Shadows: Analytical Feminist Contributions to Traditional Philosophy* and *Neurofeminism: Issues at the Intersection of Feminist Theory and Cognitive Science*.

Founding member of the Washington University in St. Louis chapter of Minorities and Philosophy (MAP) and COMPASS.

Volunteer for the Philosophy of Science Association's Women's Caucus.

Speaker at Marvin Elementary School's career day, April 2018 and April 2019.

Judge for the Graduate Research Symposium, Spring 2014 and Spring 2015.

Sustaining member of and volunteer for the St. Louis Workers' Education Society, a local 501(c)(3) nonprofit specializing in community-labor relations.

Philosophy Instructor in Washington University's Middle School Summer Challenge, 2019.

COURSEWORK

Philosophy of Science

Philosophy of Science; Conceptual Foundations of Modern Science; Advanced Philosophy of Science; Advanced Philosophy of Science – Causation Seminar; Philosophy of Neuroscience; Philosophy of Biological Science; Philosophy of Biology; Culture, Cognition, and Human Kinds.

Psychology and Neuroscience

Human Evolutionary Psychology; Genes, Environment, and Human Behavior; Perception, Thought, and Action; Functional Neuroimaging Methods; Behavioral Psychology Reading Group; Research Designs and Methods; Retrieval Processes in Human Memory; Imagery and Memory; Advanced Cognitive Psychology; Advanced Cognitive, Computational, and Systems Neuroscience; Language and Cognitive Development; Introduction to Neuroethology; Culture and Environment; Biological Neural Computation; Introduction to the Cognitive Sciences.

Philosophy of Biology

Human Evolutionary Psychology; Genes, Environment, and Human Behavior; Introduction to

Neuroethology; Culture and Environment; Philosophy of Biological Science; Philosophy of Biology; Culture, Cognition, and Human Kinds; Mind, Culture, and Evolution.

Philosophy of Mind

Philosophy of Mind; Theories of Concepts; Self-Knowledge Seminar; Mind, Culture, and Evolution.

Feminist Philosophy

Introduction to Sexuality Studies; Advanced Feminist Theory.

Ethics

Normative Ethical Theories; 20th Century Metaethics.

MISCELLANEOUS

Entries in the Online Encyclopedia of Integer Sequences: <https://oeis.org/A309983>,
<https://oeis.org/A319556>.

REFERENCES

Carl Craver (advisor)

Professor, Philosophy and Philosophy-Neuroscience-Psychology

Washington University in St. Louis

E-mail: ccraver@wustl.edu

Phone: 314-935-7146

John Heil

Professor, Philosophy

Washington University in St. Louis

E-mail: jh@wustl.edu

Phone: 314-935-5427

Stuart Glennan

Professor, Philosophy

Butler University

E-mail: sglennan@butler.edu

Phone: 317-940-9890

Anya Plutynski

Associate Professor, Philosophy

Washington University in St. Louis

E-mail: aplutyns@wustl.edu

Brian Talbot (teaching reference)

Assistant Professor, Philosophy

University of Colorado, Boulder

E-mail: philosophy@bigfatgenius.com

Phone: 314-935-8036

Marc Lange

Theda Perdue Distinguished Professor, Department Chair, Philosophy

University of North Carolina at Chapel Hill

E-mail: mlange@email.unc.edu

Phone: 919-962-3324