

# Samuel C. Fletcher

## Curriculum Vitae

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### Areas of Specialization and Competence

- AOS Philosophy of Physics, Philosophy of Science, Philosophy of Statistics.
- AOC Logic, Theory of Computation, Philosophy of Mathematics, History of Philosophy of Science.

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### Academic Employment and Affiliations

- 2015– **Assistant Professor**, *Department of Philosophy, University of Minnesota, Twin Cities.*
- 2016– **Resident Fellow**, *Minnesota Center for Philosophy of Science, University of Minnesota, Twin Cities.*
- 2017– **External Member**, *Munich Center for Mathematical Philosophy, Ludwig-Maximilians-Universität.*
- 2014–2017 **Marie Curie Fellow**, *Munich Center for Mathematical Philosophy, Ludwig-Maximilians-Universität.*
- May 2017 **Visiting Scholar**, *Department of Philosophy, University of Geneva.*
- Spring 2014 **Visiting Scholar**, *Department of Philosophy, University of Pittsburgh.*
- Summer 2013 **Teaching Associate**, *University of California, Irvine.*

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### Education

- 2014 **PhD in Philosophy (LPS)**, *University of California, Irvine.*  
Philosophy of physics emphasis.  
Dissertation Title: "Similarity and Spacetime: Studies in Intertheoretic Reduction and Physical Significance."  
Committee: James Weatherall (UCI, chair), Jeffrey A. Barrett (UCI), P. Kyle Stanford (UCI), Christian Wüthrich (UCSD).
- 2012 **MA in Philosophy**, *University of California, Irvine.*
- 2012 **MS in Statistics**, *University of California, Irvine.*
- 2008 **AB in Physics**, *Princeton University.*  
Certificate (minor) in Applied and Computational Mathematics.  
Senior Thesis Title: "Characterization of the Quantum States Simulable with Two Popescu-Rohrlich Boxes."  
Advisor: Hans Halvorson.

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## Publications

*All items peer refereed except as indicated.*

\* *editor refereed*

\*\* *not refereed*

### Edited Collections

- 2018\* *Infinite Idealizations in Science*. Edited with Patricia Palacios, Laura Ruetsche, and Elay Shech, *Synthese* special issue.
- 2018\* *Evidence Amalgamation in the Sciences*. Edited with Jürgen Landes and Roland Poellinger, *Synthese* special issue.
- 2018 *Physical Perspectives on Computation, Computational Perspectives on Physics*. Edited with Michael E. Cuffaro, Cambridge University Press. 12 commissioned chapters.

### Journal Articles

- 2018 "Minimal Approximations and Norton's Dome." *Synthese*: forthcoming.
- 2018 "Would Two Dimensions be World Enough for Spacetime?" (with J. B. Manchak, Mike D. Schneider, and James Owen Weatherall). *Studies in History and Philosophy of Modern Physics*: forthcoming.
- 2017 "On Noncontextual, Non-Kolmogorovian Hidden Variable Theories" (with Benjamin H. Feintzeig). *Foundations of Physics* 47.2: 294–315.
- 2016 "Similarity, Topology, and Physical Significance in Relativity Theory." *British Journal for the Philosophy of Science* 67.2: 365–389.
- 2013 "Light Clocks and the Clock Hypothesis." *Foundations of Physics* 43.11: 1369–1383.
- 2012 "What Counts as a Newtonian System? The View from Norton's Dome." *European Journal for Philosophy of Science* 2.3: 275–297.

### Book Chapters

- 2018\*\* "Introduction," (with Micheal E. Cuffaro) in Michael E. Cuffaro and Samuel C. Fletcher, eds. *Physical Perspectives on Computation, Computational Perspectives on Physics*. Cambridge University Press.
- 2017 "Indeterminism, Gravitation, and Spacetime Theory," in Gábor Hofer-Szabó and Leszek Wroński, eds. *Making It Formally Explicit: Probability, Causality and Indeterminism*. Springer, pp. 179–191.

### Book Reviews

- 2017\* "Against the Topologists: Essay Review of *New Foundations for Physical Geometry*." *Philosophy of Science* 84.3: 595–603.

### Conference Proceedings

- 2009\*\* "Towards a Graph-Theoretic Characterization of Popescu-Rohrlich Box Simulation Strategies," in *Proceedings of Quantum Communication, Measurement and Computing*, ed. A. Lvovsky. Melville, NY: AIP Conference Proceedings 1110.

## Other

- 2017\*\* Foreword to Andrew Lucia, *A Catalog of Difference*. UMinn Papers on Architecture 2. Minneapolis: University of Minnesota School of Architecture.

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## Principal Awards, Grants, and Honors

- 2017 **Faculty Development Leave**, *University of Minnesota, Twin Cities*.  
For completion of Marie Curie Fellowship, Fall 2017.
- 2016 **Finalist: The Secret Life of Buildings Architectural Design Competition**, *Center for American Architecture and Design, School of Architecture, University of Texas, Austin*.  
With Andrew Lucia and Iroha Ito.
- 2016 **Fund for Diversity and Inclusiveness Grant**, *American Philosophical Association*, \$1,000.  
For "Third Summer School on Mathematical Philosophy for Female Students."
- 2014–2017 **Marie Curie International Incoming Fellowship**, *European Commission*.
- 2014 **Order of Merit: Outstanding Graduate Student Scholarship**, *School of Social Sciences, University of California, Irvine*.
- 2013–2014 **Doctoral Dissertation Improvement Grant**, *National Science Foundation*, \$11,669.
- 2010–2014 **Graduate Research Fellowship**, *National Science Foundation*.
- 2010 **Researcher for Everett Papers Archive and Commentary**, *National Science Foundation*, University of California, Irvine.  
For PI Prof. Jeffrey Barrett.
- 2009 **Robert K. Clifton Memorial Book Prize**, *University of Western Ontario*.  
For "A Stop on the Hard Road to Determinism: Cases from Classical Physics."
- 2008–2014 **School of Social Sciences Merit Fellowship**, *University of California, Irvine*.
- 2008 **Maria Goeppert-Mayer Studentship**, *American Physical Society*.  
For "The Manhattan Project and Its Effects on American Women Scientists."
- 2004–2008 **National Merit Scholarship**, *National Merit Scholarship Corporation*.

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## Presentations

### Invited Presentations

- 6/2018 Modality in Physics (Faculty of Philosophy, Jagiellonian University).
- 6/2018 History and Philosophy of Science Seminar Series, California Institute of Technology.
- 3/2018 Multiple Realizability, Causation and Reductive Explanations in Science (Valparaiso, Chile).
- 3/2018 Department of Philosophy, Universidad Alberto Hurtado (Santiago de Chile).
- 12/2017 Research Colloquium in Philosophy (Chairs of Philosophy and History and Philosophy of the Mathematical Sciences, ETH Zürich).

- 11/2017 New Perspectives on Inter-theory Reduction (Department of Philosophy, University of Salzburg).
- 11/2017 Work in Progress Seminar (Department of Philosophy, University of Salzburg).
- 11/2017 Oxford Philosophy of Physics Research Seminar (Oxford University).
- 10/2017 Department of Philosophy, University of Bristol.
- 10/2017 CamPoS Group (University of Cambridge).
- 7/2017 Munich Center for Mathematical Philosophy, LMU Munich.
- 7/2017 Symmetries and Asymmetries in Physics (Leibniz University Hannover).
- 6/2017 With and Without Measure: Symmetry and Symmetry Breaking (MCMP, LMU Munich).
- 5/2017 Space and Time after Quantum Gravity Speaker Series (Department of Philosophy, University of Geneva).
- 7/2016 The Hole Shebang: New Perspectives on the Hole Argument (London School of Economics).
- 6/2016 Munich Center for Mathematical Philosophy, LMU Munich.
- 6/2016 Department of Logic and Philosophy of Science, University of the Basque Country (San Sebastián/Donostia, Spain).
- 5/2016 Department of Philosophy, Boğaziçi University (Istanbul, Turkey).
- 5/2016 5th Budapest-Krakow Workshop on Probability, Causality and Determinism (Institute of Philosophy, Hungarian Academy of Sciences, Budapest).
- 3/2016 Division of Health Policy and Management, School of Public Health, University of Minnesota, Twin Cities.
- 3/2016 School of Statistics, University of Minnesota, Twin Cities.
- 3/2016 Departments of Philosophy and Physics, Macalaster College (St. Paul, MN).
- 2/2016 5th International Ontological Workshop: Topological Philosophy (International Center for Formal Ontology, Warsaw).
- 2/2016 Department of Epistemology, Institute of Philosophy, Jagiellonian University (Krakow, Poland).
- 1/2016 Reduction in Physics and Biology (Institute of Philosophy and Complexity Sciences, Santiago, Chile).
- 11/2015 Department of Philosophy, George Washington University.
- 11/2015 Weekly Meeting, Department of Philosophy, University of Minnesota, Twin Cities.
- 5/2015 3rd Budapest-Krakow Workshop on Probability, Causality and Determinism (Institute of Philosophy, Hungarian Academy of Sciences, Budapest).
- 4/2015 Work in Progress Seminar, Munich Center for Mathematical Philosophy, LMU Munich.
- 4/2015 42nd Annual Philosophy of Science Conference (Inter-University Centre Dubrovnik).
- 3/2015 Department of Philosophy, University of Belgrade.

- 3/2015 Astronomical Observatory of Belgrade.
- 3/2015 Chance Encounters (University of Groningen).
- 3/2015 Space-time Structuralism (Erasmus University Rotterdam).
- 3/2015 Descartes Centre, Utrecht University.
- 3/2015 Theoretical High Energy Physics Lunch Seminar Series, Radboud University Nijmegen.
- 2/2015 Institute for History and Philosophy of Science and Technology, Paris.
- 2/2015 Department of Philosophy, Communication and Media Studies, University of Rome 3.
- 1/2015 Gravitation and Relativity Group, Institute for Theoretical Physics, University of Cologne.
- 12/2014 Irvine-Munich Workshop on Foundations of Classical and Quantum Field Theories (MCMP, LMU Munich).
- 12/2014 2nd Budapest-Krakow Workshop on Probability, Causality and Determinism (Jagiellonian University, Krakow).
- 12/2014 Department of Philosophy, University of Salzburg.
- 11/2014 Philosophy of Physics Workshop (University of Bucharest).
- 11/2014 Department of Theoretical Philosophy, University of Bucharest.
- 10/2014 Vienna Center for Quantum Science and Technology.
- 10/2014 Munich Center for Mathematical Philosophy, LMU Munich.
- 10/2014 Sigma Club (London School of Economics).
- 9/2014 Theoretical Philosophy Forum, Eötvös University (Budapest).
- 9/2014 Institute of Philosophy, Hungarian Academy of Sciences (Budapest).
- 4/2014 HPS Work in Progress Series (University of Pittsburgh).
- 1/2014 Department of Philosophy, University of Minnesota, Twin Cities.
- 1/2014 Department of Philosophy, Ohio University.
- 12/2013 Center for the Humanities Research Group: The Fundamental Nature of Time and Change (University of California, San Diego).
- 11/2013 Oxford Philosophy of Physics Research Seminar (Oxford University).
- 11/2013 CamPoS Group (University of Cambridge).
- 11/2013 Sigma Club (London School of Economics).
- 10/2013 Philosophy of Science Reading Group (University of Washington).
- 4/2013 Southern California Philosophy of Physics Group (University of California, Irvine).
- 9/2010 Southern California Philosophy of Physics Group (University of California, Irvine).
- 6/2010 Southern California Philosophy of Physics Group (University of California, Irvine), with Jason Hoelscher-Obermaier.

#### Contributed Presentations

- 10/2017 The Structure of Scientific Revolutions (Durham University).

- 9/2017 Thinking about Space and Time: 100 Years of Applying and Interpreting General Relativity (University of Bern).
- 9/2017 European Philosophy of Science Association Biennial Conference (University of Exeter).
- 8/2017 Logic, Relativity, and Beyond: 3rd International Conference (Rényi Institute, Budapest).
- 8/2017 Ninth European Congress of Analytic Philosophy (LMU Munich).
- 7/2017 British Society for the Philosophy of Science Annual Meeting (University of Edinburgh).
- 7/2017 Direct Empirical Status and the Ontology of Symmetries in Physics (Université Catholique de Louvain).
- 6/2017 Triennial International Conference of the Italian Society for Logic and Philosophy of Science (University of Bologna).
- 6/2017 Quantum Contextuality in Quantum Mechanics and Beyond (Prague, Czech Republic).
- 10/2016 32nd Annual Boulder Conference on History and Philosophy of Science, "Gravity: Its History and Philosophy," (University of Colorado, Boulder).
- 8/2016 5th Summer School in the History and Philosophy of Science: Probability and Quantum Mechanics (University of Tübingen).
- 7/2016 Foundations of Physics (London School of Economics).
- 7/2016 British Society for the Philosophy of Science Annual Meeting (University of Cardiff).
- 6/2016 6<sup>e</sup> Congrès de la Société de Philosophie des Sciences (University of Lausanne).
- 6/2016 First Principles in Science: Their Epistemic Status and Justification (LMU Munich).
- 6/2016 Infinite Idealizations in Science (LMU Munich).
- 6/2016 Fourth International Conference on the Nature and Ontology of Spacetime (Varna, Bulgaria).
- 5/2016 Philosophy of Science in a Forest 2016—Dutch Association for Philosophy of Science (Doorn, the Netherlands).
- 2/2016 Philogica IV: Fourth Colombian Conference on Logic, Epistemology and Philosophy of Science (Bogotá, Colombia).
- 11/2015 Iowa Philosophical Society (Iowa State University).
- 10/2015 Effective Theories, Mixed Scale Modeling, and Emergence (University of Pittsburgh).
- 8/2015 9th Principia International Symposium: Possible Worlds and their Applications in Philosophy and the Sciences (Florianópolis, Brazil).
- 8/2015 Logic, Relativity, and Beyond: 2nd International Conference (Rényi Institute, Budapest).
- 8/2015 15th Congress of Logic, Methodology and Philosophy of Science (University of Helsinki).
- 7/2015 4th Summer School in the History and Philosophy of Science: Idealizations in Physics (University of Tübingen).
- 7/2015 8th Conference of the Spanish Society for Logic, Methodology and Philosophy of Science (University of Barcelona).
- 7/2015 British Society for the Philosophy of Science Annual Meeting (University of Manchester).

- 6/2015 5th World Congress and School on Universal Logic (University of Istanbul).
- 4/2015 3rd Meeting of the Nordic Network for Philosophy of Science (TINT, University of Helsinki).
- 3/2015 Rethinking Foundations of Physics (Dorfgastein, Austria).
- 3/2015 Formal Methods and Science in Philosophy (Inter-University Centre Dubrovnik).
- 3/2015 79th Annual Meeting of the Deutsche Physikalische Gesellschaft (TU Berlin).
- 1/2015 Quantum Computation, Quantum Information, and the Exact Sciences (LMU Munich).
- 10/2014 The Metaphysics of Quantum Mechanics (Corpus Christi College, Oxford University, poster presentation).
- 9/2014 DPG Physics School on General Relativity @ 99 (Bad Honnef, Germany, poster presentation).
- 8/2014 3rd International Interdisciplinary Summer School: Arches and Scaffoldings (University of Tübingen).
- 7/2014 2nd International Summer School in Philosophy of Physics: Probabilities in Physics (Saig, Germany).
- 7/2014 British Society for the Philosophy of Science Annual Meeting (Fitzwilliam College, University of Cambridge).
- 6/2014 Society for Exact Philosophy Annual Meeting (CalTech, poster presentation).
- 3/2014 2nd Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics (University of California, Irvine).
- 11/2013 Reduction and Emergence in the Sciences (LMU Munich).
- 11/2013 4th Madrid Workshop on New Trends in the Philosophy of Science: Inferentialism in Epistemology and Philosophy of Science (UNED Madrid).
- 9/2013 Seminar on the Philosophical Foundations of Quantum Gravity (University of Illinois, Chicago).
- 6/2013 Reduction and Emergence in Physics (LMU Munich).
- 4/2013 Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics (University of Pittsburgh).
- 11/2012 Virginia Tech Graduate Philosophy of Science Conference (Blacksburg, VA).
- 9/2011 Kant and the Exact Sciences Graduate Conference (University of Notre Dame).
- 7/2011 14th Congress of Logic, Methodology, and Philosophy of Science (University of Nancy, France), with Jason Hoelscher-Obermaier.
- 3/2010 University of Pittsburgh/Carnegie Mellon University Joint Graduate Philosophy Conference.
- 4/2009 6th Western Ontario Logic, Mathematics & Physics Graduate Philosophy Conference (London, ON).
- 8/2008 9th International Conference on Quantum Communication, Measurement and Computing (University of Calgary, poster presentation).

- 4/2008 American Physical Society, Annual April Meeting (St. Louis, MO).
- 10/2007 American Physical Society, Division of Nuclear Physics Annual Meeting (Newport News, VA, poster presentation).

8/2007 Student Symposium, Los Alamos National Laboratory.

#### Seminar Guest Lectures

- 12/2017 Philosophy of Statistics (Dr. Rush Stewart), Munich Center for Mathematical Philosophy, LMU Munich.
- 12/2017 Reduction and Emergence (Patricia Palacios), Munich Center for Mathematical Philosophy, LMU Munich.
- 7/2017 Reduction and Emergence (Dr. Neil Dewar), Munich Center for Mathematical Philosophy, LMU Munich.
- 2/2016 Research Methods (Dr. George Biltz), School of Kinesiology, University of Minnesota, Twin Cities.
- 7/2014 Explanation and Reduction (Prof. Andreas Hüttemann), Department of Philosophy, University of Cologne.

#### Public and Outreach Presentations

- 1/2018 Honors Mentor Connection (Wayzata High School, Plymouth, MN).
- 4/2017 Let's Nerd Out! 5 (Minneapolis, MN).
- 3/2015 Who's In Town Lecture Series (Amsterdam University College).

## Teaching Experience

University of Minnesota, Twin Cities

- Spring 2018 **Introduction to Logic.**  
Lower division. Course website: <https://ay17.moodle.umn.edu/course/view.php?id=8220>.
- Spring 2018 **Scientific Thought.**  
Writing-intensive mid-level philosophy of science survey. Course website: <https://ay17.moodle.umn.edu/course/view.php?id=8218>.
- Spring 2017 **Introduction to Logic.**  
Lower division. Course website: <https://ay15.moodle.umn.edu/course/view.php?id=9996>.
- Spring 2017 **Symbolic Logic II.**  
Graduate-level computability and incompleteness. Course website: <https://ay16.moodle.umn.edu/course/view.php?id=9998>.
- Spring 2017 **Directed Study: Conceptual and Mathematical Foundations of Classical Space-Time Theory.**  
Differential geometry and physics of special and general relativity (1 undergraduate student, at the level of Woodhouse's *General Relativity* (Springer, 2007)).



- Fall 2016 **Scientific Thought.**  
Writing-intensive mid-level philosophy of science survey. Course website: <https://ay16.moodle.umn.edu/course/view.php?id=3839>.
- Fall 2016 **Space and Time.**  
Cross-listed undergraduate/graduate seminar. Course website: <https://ay16.moodle.umn.edu/course/view.php?id=3840>.
- Fall 2016 **Directed Study: Space and Time.**  
Technical supplement (2 students) to concurrent undergraduate/graduate seminar.
- Spring 2016 **Revolutions in Science: Lavoisier, Darwin, and Einstein.**  
Lower division, 1/3 of lectures (5 weeks), with Victor Boantza and Mark Borrello. Course website: <https://ay15.moodle.umn.edu/course/view.php?id=12003>.
- Spring 2016 **Scientific Thought.**  
Writing-intensive mid-level philosophy of science survey. Course website: <https://ay15.moodle.umn.edu/course/view.php?id=11035>.
- Spring 2016 **Introduction to Logic.**  
Lower division. Course website: <https://ay15.moodle.umn.edu/course/view.php?id=10324>.
- Fall 2016 **Philosophy of Statistics.**  
Graduate seminar. Course website: <https://ay15.moodle.umn.edu/course/view.php?id=7242>.  
University of California, Irvine
- Summer 2013 **Critical Reasoning.**  
Lecturing and grading, lower division informal and formal sentential logic. Course website: <https://eee.uci.edu/13y/66010>.
- Spring 2013 **Introduction to Inductive Logic, Teaching Assistant.**  
Lower division.
- Winter 2010 **Introduction to Symbolic Logic, Teaching Assistant.**  
Lower division predicate logic.
- Fall 2009, **Critical Reasoning, Teaching Assistant.**  
Winter 2009, Lower division informal and formal sentential logic.  
Fall 2008
- Center For Talented Youth (Johns Hopkins University)
- Summer 2009 **Mathematical Logic, Teaching Assistant, Loyola Marymount University, Los Angeles, CA.**  
Equivalent to lower division predicate logic.
- Summer 2008 **Nuclear Science, Teaching Assistant, Roger Williams University, Bristol, RI, 2 sessions of same course.**  
Equivalent to lower division course for non-majors.

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## Professional and Academic Service and Training

### School and Conference Organization

- 2018 **British Society for the Philosophy of Science Annual Meeting**, *Program Committee*, Oxford University.  
Reviewed 15 extended abstracts.
- 2018 **Ninth International Workshop on Physics and Computation**, *Program Committee*, Fontainebleau, France.
- 2017 **Fourth Summer School on Mathematical Philosophy for Female Students**, *Organizing Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
Week-long school, organizing duties shared with Marianna Antonutti, Lavinia Picollo, and Gil Sagi.
- 2017 **British Society for the Philosophy of Science Annual Meeting**, *Program Committee*, University of Edinburgh.  
Reviewed 15 extended abstracts.
- 2016 **Third Summer School on Mathematical Philosophy for Female Students**, *Organizing Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
Week-long school, organizing duties shared with Milena Ivanova and Karolina Krzyżanowska.
- 2016 **Infinite Idealizations in Science**, *Organizing Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
Two-day workshop, organizing duties shared with Patricia Palacios.
- 2016 **MuST 9: Evidence, Inference, and Risk**, *Program Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
Reviewed two extended abstracts.
- 2015 **1st Munich Graduate Workshop in Mathematical Philosophy: Philosophy of Physics**, *Organizing Committee & Lecturer*, Munich Center for Mathematical Philosophy, LMU Munich.  
Three-day workshop and school, organizing duties shared with Brian Padden, Patricia Palacios, and Karim Thébault. Delivered one seminar lecture.
- 2015 **Quantum Computation, Quantum Information, and the Exact Sciences**, *Organizing Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
Two-day conference, organizing duties shared with Michael Cuffaro and Johannes Kofler.
- 2014 **Irvine-Munich Workshop on Foundations of Classical and Quantum Field Theories**, *Organizing Committee*, Munich Center for Mathematical Philosophy, LMU Munich.  
One-day workshop, organizing duties shared with Karim Thébault.
- 2014 **2nd Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics**, *Program Committee*, University of California, Irvine.  
Reviewed one submitted paper.
- 2013 **1st Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics**, *Program Committee*, University of Pittsburgh.  
Reviewed one submitted paper.

#### Conference Session Chairing

- 9/2017 **European Philosophy of Science Association Biennial Conference**, University of Exeter.
- 8/2017 **Logic, Relativity, and Beyond: 3rd International Conference**, Rényi Institute, Budapest.
- 8/2017 **Ninth European Congress of Analytic Philosophy**, LMU Munich.
- 7/2017 **British Society for the Philosophy of Science**, University of Edinburgh.
- 7/2016 **Foundations of Physics**, London School of Economics.
- 6/2016 **The Semantics of Theories**, LMU Munich.
- 6/2016 **First Principles in Science: Their Epistemic Status and Justification**, LMU Munich.
- 6/2016 **Infinite Idealizations in Science**, LMU Munich.
- 5/2016 **Philosophy of Science in a Forest 2016—Dutch Association for Philosophy of Science**, Doorn, the Netherlands.
- 2/2016 **Topological Philosophy**, Warsaw, Poland.
- 8/2015 **Logic, Relativity, and Beyond: 2nd International Conference**, Rényi Institute, Budapest.
- 8/2015 **15th Congress of Logic, Methodology and Philosophy of Science**, University of Helsinki.
- 4/2015 **1st Munich Graduate Workshop in Mathematical Philosophy: Philosophy of Physics**, LMU Munich.
- 1/2015 **Quantum Computation, Quantum Information, and the Exact Sciences**, LMU Munich.
- 11/2014 **24th Biennial Meeting of the Philosophy of Science Association**, Chicago, IL.
- 4/2014 **88th Annual Meeting of the American Philosophical Association, Pacific Division**, San Diego, CA.
- 11/2012 **23rd Biennial Meeting of the Philosophy of Science Association**, San Diego, CA.

#### Workshop Commentaries

- 3/2017 **Author Meets Readers**, "*Representing Space in the Scientific Revolution*," by David Marshall Miller, Minnesota Center for Philosophy of Science.
- 7/2015 **The Problem of Time in Perspective**, "*Changing Observables in Canonical General Relativity from Hamiltonian-Lagrangian Equivalence*," by J. Brian Pitts, Munich Center for Mathematical Philosophy.
- 4/2015 **Nordic Network for Philosophy of Science**, "*On the limits of classical computational systems*," by Michael Cuffaro, University of Helsinki.

#### Refereeing

- 2017 *American Journal of Physics* 2014–15 Birkhäuser Press

- 2013–18 *British Journal for the Philosophy of Science*  
 2014 *Ergo*  
 2014–15 *Erkenntnis*  
 2014–17 *Foundations of Physics*  
 2017 *Logique et Analyse*  
 2014, '18 *Minds and Machines*  
 2015 Polish National Science Centre  
 2016 Oxford University Press  
 2010–12 *Physics Letters A*  
 2016–17 *Review of Symbolic Logic*  
 2014–18 *Studies in History and Philosophy of Modern Physics*  
 2015–18 *Synthese*  
 2016–17 *Universe*
- 2014 *Canadian Journal of Physics*  
 2016 De Gruyter Press  
 2014–17 *European Journal for Philosophy of Science*  
 2016–17 *Journal for General Philosophy of Science*  
 2016 *Mind and Matter*  
 2017 *Philosophy Compass*  
 2016–17 National Science Foundation  
 2010–18 *Philosophy of Science*  
 2010 *Praxis Journal of Philosophy*  
 2015 Springer-Verlag  
 2018 *Studies in History and Philosophy of Science*  
 2017 *THEORIA*

#### Institutional and Departmental Service

- 2018 **Diversity Committee and Colloquium Coordinator**, *Department of Philosophy, University of Minnesota, Twin Cities.*
- 2016–2017 **Admissions and Aid Committee**, *Department of Philosophy, University of Minnesota, Twin Cities.*
- 2015–2016 **Awards Committee**, *Department of Philosophy, University of Minnesota, Twin Cities.*
- 2015 **Search Committee**, *Munich Center for Mathematical Philosophy, LMU Munich.*  
 For Assistant Professor in philosophy of physics.
- 2013–2014 **Dean's Fellowship Advisory Committee**, *School of Social Sciences, University of California, Irvine.*  
 Elected to review extramural fellowship applications.

#### Other Service and Training

- 9/16–12/16 **Senior Project Advisor**, *Biology, Society, and Environment Program, University of Minnesota, Twin Cities.*  
 Advised student on capstone research paper.
- 5/2016 **Senior Final Studio Jury**, *School of Architecture, University of Minnesota, Twin Cities.*  
 One of four faculty evaluating senior undergraduate student project proposals.
- 4/16–5/16 **Senior Honors Thesis Committee**, *School of Physics and Astronomy, University of Minnesota, Twin Cities.*  
 Provided comments on thesis presentation, read and judged written thesis for *summa cum laude* recommendation.

- 4/2016 **Research Overview Speaker**, *School of Physics and Astronomy, University of Minnesota, Twin Cities.*  
15-minute discussion of research group in history and philosophy of physics for prospective physics graduate students.
- 1/16–5/16 **Senior Project Advisor**, *Biology, Society, and Environment Program, University of Minnesota, Twin Cities.*  
Advised student on capstone research paper.
- 1/16–5/16 **Academic Advisor**, *College of Liberal Arts Dean's Freshman Research and Creative Scholars Program, University of Minnesota, Twin Cities.*  
Advised two students on project "Varieties of Bayesianism".
- 11/2015 **First-year Midterm Studio Jury**, *School of Architecture, University of Minnesota, Twin Cities.*  
One of four faculty evaluating graduate student project proposals.
- 9/15–8/17 **New Faculty Program**, *University of Minnesota, Twin Cities.*
- 10/14–1/15 **Reading Group Organizer**, *Philosophy of Physics, Munich Center for Mathematical Philosophy, LMU Munich.*  
Winter term, focus on foundations of classical mechanics.
- 2013 **Safe Zone Training**, *LGBT Resource Center, University of California, Irvine.*  
Training for informed and supportive affirmation of the LGBTQA community at UC Irvine.
- 9/11–12/11 **Graduate Seminar Organizer**, *Philosophy of Probability, University of California, Irvine.*  
Sponsored by Brian Skyrms, attended by eight other graduate students and three faculty.

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## Professional Society Affiliations

- American Association for the Advancement of Science
- American Philosophical Association
- American Physical Society
- British Society for the Philosophy of Science
- European Philosophy of Science Association
- Friends of the SEP (Stanford Encyclopedia of Philosophy) Society
- Foundational Questions Institute (FQXi)
- History of Science Society
- Marie Curie Alumni Association
- Philosophy of Science Association
- Society of Sigma Xi