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## I. Education

- (1) The Johns Hopkins University, Baltimore, Maryland. M.A. in Philosophy, May, 1992. Certificate in graduate program in History and Philosophy of Science, June, 1995. Ph.D. in Philosophy, May, 1998.
- (2) Grinnell College, Grinnell, Iowa. B.A. in Physics, May, 1986.

## II. Appointments

- (1) 2016 { present: Professor, Dept. of Philosophy, Saint Louis University
- (2) 2018 { present: Coordinator of Graduate Studies, Dept. of Philosophy, Saint Louis University
- (3) 2006 { 2016: Associate Professor, Dept. of Philosophy, Saint Louis University
- (4) 2001 { 2006: Assistant Professor, Dept. of Philosophy, Saint Louis University
- (5) Spring 2001: Visiting Assistant Professor, Dept. of Philosophy, Boston University
- (6) 1997 { 2001: Assistant Professor, Dept. of English and Philosophy, Arkansas State University

## III. Authored Books

- (1) An Introduction to the Philosophy of Science, Cambridge University Press, 2014.
- (2) The Evidence for the Top Quark: Objectivity and Bias in Collaborative Experimentation. Cambridge University Press, 2004.

## IV. Edited Volumes

- (1) "Experimental and Theoretical Knowledge," special issue of *The Modern Schoolman* 87 (2011), nos. 3-4.
- (2) "Statistical Science and Philosophy of Science" (co-edited with D. Mayo and A. Spanos), special issue of *Rationality, Markets, and Morals* 2 (2011).
- (3) "Error and Methodology in Practice" (co-edited with J. Miller and D. Mayo), special issue of *Synthese* 163 (2008), no. 3.

## V. Articles (refereed)

- (1) "How Uncertainty Can Save Measurement from Circularity and Holism" (with Sophie Ritson) *Studies in History and Philosophy of Science*, forthcoming.
- (2) "Securing the Empirical Value of Measurement Results" *British Journal for the Philosophy of Science* 71 (2020): 87{113.
- (3) "'Agreement' in the IPCC Con dence Measure" (with Bill Rehg) *Studies in History and Philosophy of Modern Physics* 57 (2017): 126{134.





- (4) Organizer for "Model Landscapes and Event Signatures: Using Data to Explore Phenomena Beyond the Standard Model of Elementary Particle Physics," Symposium presented at the 2018 meeting of the Philosophy of Science Association, Seattle, Washington.
- (5) Cooperation partner, "Epistemology of the Large Hadron Collider" project.
- (6) Workshop discussant, "Statistical Science and Philosophy of Science: Where Should/Do They Meet in 2010 (and Beyond)?" London School of Economics, June 21-22, 2010.
- (7) Organizer for Henle Conference on Experimental and Theoretical Knowledge at Saint Louis University. March 26-27, 2010.
- (8) Co-founder and treasurer for Saint Louis Area Philosophy of Science Association (SLAPSA). Organizer for SLAPSA I, February 28, 2009, and for SLAPSA VI, February 15, 2014.
- (9) Program, Planning, and Publicity Committee, First Symposium on Philosophy, History, and Methodology of ERROR (Experimental Reasoning, Reliability, Objectivity, and Rationality), Blacksburg, Virginia, June 2006.
- (10) Organizer for "Collaboration Experiments," a workshop at the 2004 meeting of the Philosophy of Science Association, Austin, Texas.
- (11) I have served as referee for articles submitted to British Journal for the Philosophy of Science, Philosophy of Science, Synthese, Studies in the History and Philosophy of Science, Studies in History and Philosophy of Modern Physics, Erkenntnis, Episteme, Philosophy Compass, Perspectives on Science, Historical Studies in the Natural Sciences, Logic Journal of the IGPL, The Philosopher's Imprint, Ratio, Res Philosophica, and Philosophical Studies as a manuscript referee for Cambridge University Press, Johns Hopkins University Press, and University of Pittsburgh Press, and as a panelist and proposal referee for the National Science Foundation.

#### X. Paper Presentations

- (1) "Some thoughts on theory dependence and circularity" and "Evaluation of systematic uncertainty in High Energy Physics." Workshop of the Epistemology of the Large Hadron Collider project, University of Bonn, June 24-26, 2019.
- (2) "What does the evaluation of systematic uncertainty contribute to scientific knowledge?" Colloquium talk given to Department of Physics, Tufts University, April 5, 2019.
- (3) "An Epistemological Function for Systematic Uncertainty in Data to Phenomenon Inferences at the LHC," Symposium on Model Landscapes and Event Signatures: Using Data to Explore Phenomena Beyond the Standard Model of Elementary Particle Physics, Philosophy of Science Association, Seattle, WA, November 3, 2018.
- (4) "Pragmatism and Methodology in High Energy Physics" and "The Challenges of Measurement Uncertainty," Particle Physics at the Crossroads Summer School, Epistemology of the Large Hadron Collider project, Wuppertal, Germany, July 24, 2018.
- (5) "Epistemological Functions for Systematic Uncertainty in Measurements in High Energy Physics," Measurement at the Crossroads Conference, Paris, France, June 28, 2018.
- (6) "The Challenges of Measurement Uncertainty," Seven Pines Symposium, Stillwater, MN, May 17, 2018.
- (7) "Securing the Empirical Value of Measurement Results," History and Philosophy of Science and Medicine Series, Washington University, St. Louis, MO, March 6, 2018.

- (8) "Statistics and Uncertainty in High Energy Physics," CERN History Days, Conseil Européen pour la Recherche Nucléaire (CERN) Laboratory, Geneva, Switzerland, February 1, 2018.
- (9) "The Evaluation and Interpretation of Systematic Uncertainty," poster presentation at PSA 2016, the Biennial Meeting of the Philosophy of Science Association, Atlanta, Georgia, November 4, 2016.
- (10) "Securing the Empirical Value of Measurement Results," paper presented at Informal Aspects of Uncertainty Assessment Workshop, Cambridge University, Cambridge, England, May 20, 2016.
- (11) "Estimation of Systematic Uncertainty as Robustness Analysis," paper presented at Workshop on Robustness Analysis, University of Helsinki, Helsinki, Finland, September 25, 2014 and Society for Philosophy of Science in Practice, Aarhus, Denmark, June 24, 2015.
- (12) "Incommensurability as an Epistemic Problem" (with Mike Mazza). Paper presented at Collaborations Conference, Southern Illinois University, Carbondale, Illinois, March 19, 2015
- (13) "The Higgs Boson and Inductive Risk," paper presented at PSA 2014, the Biennial Meeting of the Philosophy of Science Association, Chicago, Illinois, November 8, 2014.
- (14) "The Statistical Philosophy of High Energy Physics: Pragmatism (or, The Higgs Boson and Inductive Risk)," paper presentation at workshop on "Evidence, Discovery, Proof: Measuring the Higgs Particle." Columbia, South Carolina, April 25, 2014.
- (15) "Selection, Significance, and Signification: Issues in High Energy Physics," paper presentation at Boston University Colloquium in Philosophy of Science, "Revisiting the Foundations of Statistics in the Era of Big Data: Scaling Up to Meet the Challenge," February 21, 2014.
- (16) "Five Sigma: Statistics and Standards of Discovery" Colloquium talk given at Johns Hopkins

- (24) "Internalist and Externalist Aspects of Justification in Scientific Inquiry" (w/ Aaron Cobb), paper presentation at SPSP (Society for Philosophy of Science in Practice), Minneapolis, Minnesota, June 18, 2009.
- (25) "Two Ways to Rule Out Error: Severity and Security," paper presentation at Missouri Philosophy of Science Workshop, September 20, 2008 and at Second Meeting on Philosophy, Probability, and Methodology, Universitat de Valencia, October 31, 2008.
- (26) "Securing Scientific Evidence," paper presentation at University of Frankfurt, May 14, 2008

- (42) "Mill on Scientific Method in the System of Logic and On Liberty." Paper presented at HOPOS 2000: Third International History of Philosophy of Science Conference, Vienna, Austria, July 2000
- (43) "Lost Origins of the Third Generation of Quarks." Paper presented at the annual meeting of the History of Science Society, Pittsburgh, Pennsylvania. November, 1999
- (44) "Golden Events and Statistics." Paper presented at the meeting of the Society for the Social Studies of Science, Halifax, Nova Scotia. October, 1998
- (45) "Bayesians, Bias, and Particle Physics." Paper presented at the meeting of the Southern Society for Philosophy and Psychology, New Orleans, Louisiana. April, 1998
- (46) "Novelty, Severity, and History in the Testing of Hypotheses: The Case of the Top Quark." Paper presented at the Fifteenth Biennial Meeting of the Philosophy of Science Association, Cleveland, Ohio, November, 1996

## XI. Honors and Grants

- (1) SLU Mellon Faculty Development Grant. Travel grant to present "Estimation of Systematic Uncertainty as Robustness Analysis" at Society for Philosophy of Science in Practice conference, Aarhus, Denmark, June 2015.
- (2) SLU Mellon Faculty Development Grant. Travel grant to present "Experimental Knowledge in the Face of Theoretical Error" at "Error in the Sciences" workshop, Lorentz Center, Leiden, Netherlands, October 2011.
- (3) NSF Research Grant, "The Reach of Experiment: Reasoning Securely About Fundamental Physics," 2008-2010.
- (4) SLU Summer Research Award, "The Reach of Experiment: Reasoning Securely about Fundamental Physics." Summer 2007.
- (5) SLU Mellon Faculty Development Grant. Travel grant to present "Can Error Statistical Inference Function Securely?" at Confirmation, Induction, and Science conference at LSE. March 2007.
- (6) SLU Mellon Faculty Development Grant. "Fine-tuning Problems in Physics and Philosophy." For research on fine-tuning problems in cosmology and fine-tuning arguments in philosophy of religion. Summer 2005.
- (7) SLU Summer Research Award. "New Theories, New Methods: Theoretical and Methodological Innovation in High Energy Physics." For research on the search for new symmetries in physics. Summer 2004.
- (8) SLU Mellon Faculty Development Grant. "In Search of Supersymmetry." For research on history of development of supersymmetric field theories. Summer 2003
- (9) SLU Mellon Faculty Development Grant. "In Search of Supersymmetry." For research on search for supersymmetric particles at Fermi National Accelerator Laboratory. Summer 2002
- (10) NEH Summer Stipend, "Collaborative Experimental Reasoning in High Energy Physics: Historical and Philosophical Perspectives on the Search for the Top Quark" (FT-45784-01). Summer 2001
- (11) Participant, NEH Summer Seminar, "Philosophy of Experimental Inference: Induction, Reliability, and Error." Directed by Deborah Mayo, Virginia Tech. Summer 1999

