

MOLLY KAO

mkao4@uwo.ca

University of Western Ontario
1151 Richmond St. N.
Stevenson Hall, Rm. 4132
London, ON
N6A 5B8

EDUCATION

University of Western Ontario (2009-present): PhD, Philosophy

University of Western Ontario (2008-2009): MA, Philosophy, with distinction

University of Windsor (2004-2008): BA Honours with distinction, Philosophy and Mathematics, Minor in French

AREAS OF SPECIALIZATION

Philosophy of Science, History and Philosophy of Physics

AREAS OF COMPETENCE

Epistemology, Philosophy of Biology, Game Theory, Kant

SCHOLARSHIPS AND AWARDS

University of Western Ontario Graduate Thesis Research Award, 2014

Rotman Institute of Philosophy Graduate Research Award, Fall 2013

Ontario Graduate Scholarship Doctoral Level, 2013-2014

SSHRCC Doctoral Award, 2011-2013

Ontario Graduate Scholarship Doctoral Level, 2011-2012 (declined), 2010-2011, 2009-2010

SSHRCC CGS Masters Award, 2008-2009

Ontario Graduate Scholarship Masters Level, 2008-2009, declined

Dean's Entrance Scholarship, Faculty of Arts & Humanities UWO, Fall 2008

Board of Governors' Medal in Philosophy, University of Windsor, 2008

Outstanding Scholars Award, Department of Philosophy, University of Windsor, 2004-2008

PUBLICATIONS

“Unificatory Power in the Old Quantum Theory: Informational Relevance of the Quantum Hypothesis.” Accepted to *Philosophy of Science*.

“A New Role for Data in the Philosophy of Science.” Accepted to *Philosophia Scientiae*.

“Is the Inferential Conception of Applied Math Complete?” Proceedings of the 37th Annual Meeting of the Canadian Society for History and Philosophy of Mathematics and 5th Joint Conference with the British Society for History of Mathematics, Volume 24, July 2011, pp. 68-78.

Review of "From a Geometrical Point of View: A Study of the History and Philosophy of Category Theory" by Jean-Pierre Marquis. Co-authored with Nicolas Fillion and John Bell. *Philosophia Mathematica*, Volume 18(2), 2010, pp. 227-234.

SELECTED PRESENTATIONS

“Unificatory Power in the Old Quantum Theory: Informational Relevance of the Quantum Hypothesis” Philosophy of Science Association Biannual Meeting, Chicago, USA, November 2014 (upcoming)

“Quantization in the Early Twentieth Century: Investigating an Instance of Theory Change” Structuralism, Structural Realism and Theory Change Workshop, Munich Centre for Mathematical Philosophy, Munich, Germany, July 2014

“Unification in the Old Quantum Theory: Planck's Constant and the Quantum Hypothesis” Inductive Logic and Confirmation in Science, University of Kent, Paris campus, France, October 2013.

“Theory Pursuit and the Old Quantum Theory” Congress on Logic and Philosophy of Science, Ghent, Belgium, September 2013.

“Unification in the Old Quantum Theory” 17th UK and European Meeting on Foundations of Physics, Munich, Germany, July 2013.

“Confirmation and the Old Quantum Theory” PGSA Colloquium Series, Department of Philosophy, University of Western Ontario, October 2012.

“From Foundation to Function: Rethinking the Role of Data in Science” Congress for Logic, Methodology and Philosophy of Science, Nancy, France, July 2011.

“Is the Inferential Conception of Applied Mathematics Complete?” Canadian Society for History and Philosophy of Mathematics, Dublin, Ireland, July 2011.

“From Foundation to Function: Rethinking the Role of Data in Science” Canadian Society for History and Philosophy of Science, Fredericton, Canada, May 2011.

“Is the Inferential Conception of Applied Math Complete?” Canadian Philosophical Association, Fredericton, Canada, May 2011.

“Why de Broglie-Bohm Theory is Not Everettian.” Canadian Philosophical Association, Montreal, Canada, May 2010.

TEACHING EXPERIENCE

Research Assistant, online course development, *Introduction to Critical Thinking*, University of Western Ontario, Summer 2014

Instructor, *Basic Logic*, University of Western Ontario, Winter 2012

Grader, *Introduction to Logic*, University of Western Ontario, Fall 2010-Winter 2011

Teaching Assistant, *Reasoning and Critical Thinking*, University of Western Ontario, Fall 2008-Winter 2009, Fall 2009-Winter 2010

Grader, *Linear Algebra III*, University of Windsor, Winter 2008

Grader, *Introduction to Linear Algebra*, University of Windsor, Fall 2007

Teaching Assistant, *Mathematical Foundations*, University of Windsor, Winter 2007-Summer 2007, Winter 2008

Grader, *Differential Calculus*, University of Windsor, Fall 2007

PROFESSIONAL ACTIVITIES

- Reviewer for *Philosophy of Science*
- Member of Philosophy of Science Association
- Member of Canadian Philosophical Association
- Member of Canadian Society for History and Philosophy of Science

GRADUATE COURSEWORK (AUDITS DENOTED BY *)

Symmetry in Philosophy and Physics*	C. Smeenk, Fall 2012
Philosophy of Probability*	W. Myrvold, Winter 2012
Philosophical Foundations of Modern Physics*	R. DiSalle, Fall 2011
Evolutionary Perspectives on Ethics and Epistemology	G. Barker, Winter 2011
Kant's First Critique	C. Dyck, Winter 2011
Survey of Philosophy of Law*	B. Hoffmaster, Fall 2010
Darwin's Origin of Species*	D. Henry, Fall 2010
Empiricism and Philosophy of Science	C. Smeenk, Fall 2010
20th Century Philosophy of Science	K. Okruhlik, Winter 2010
Philosophy of Applied Mathematics	R. Batterman, Winter 2010
Game Theory	W. Harper, Winter 2010
Philosophy of Physics	C. Smeenk, Fall 2009
Metaphysics from Leibniz to Kant	R. DiSalle, Fall 2009
Philosophy of Biology	G. Barker, Fall 2009
Newton's Universal Gravitation*	W. Harper, Fall 2009
Emergence	R. Batterman, Winter 2009
Philosophy of Mathematics	J. Bell, Winter 2009
Category Theory	J. Bell, Winter 2009
Philosophy of Quantum Mechanics	W. Myrvold, Fall 2008

Empiricism Through the Ages
Kant and the Philosophy of Mind

B. Hill, Fall 2008
C. Dyck, Fall 2008

SERVICE

Committee Chair, “Annual Graduate Conference in Philosophy of Logic, Mathematics and Physics,” University of Western Ontario, 2012-13, 2011-12

Committee Member, “Annual Graduate Conference in Philosophy of Logic, Mathematics and Physics,” University of Western Ontario, 2010-11

Co-president, Philosophy Graduate Students Association, University of Western Ontario, 2011-12, 2010-11

Department representative, Society of Graduate Students, University of Western Ontario, 2008-09

OTHER ACTIVITIES

Visiting Student, Munich Center for Mathematical Philosophy, Ludwig-Maximilians-Universität München, 2013-present.

Rotman Summer Institute, “Foundations of Statistical Mechanics,” Rotman Institute of Philosophy, Ontario, Canada, 14-20 July 2013.