Alex Koo

Curriculum Vitae

alex.koo@utoronto.ca

EDUCATION

2015 Ph.D., University of Toronto, Institute for the History and Philosophy of Science and

Technology

Dissertation Title: Mathematical Explanation in Science

2004 Honours Bachelor of Science, University of Toronto

PROFESSIONAL APPOINTMENTS

2018 Lecturer, University of Toronto Mississauga, Department of Philosophy

2015, 2016, 2017 Lecturer, University of Toronto, Department of Philosophy

TEACHING EXPERIENCE

University of Toronto

Modern Symbolic Logic (Summer 2015; Fall & Winter 2015/16, 2016/17, 2017/18) Philosophy of Mathematics (Winter 2018) Topics in the Philosophy of Science (Winter 2017, Winter 2018) Symbolic Logic I (Fall 2016, Fall 2017) Reason and Truth (Fall 2017) Philosophy of Natural Science (Winter 2016, Fall 2016, Fall 2017) Philosophy and the Modern World (Winter 2017) Introduction to Philosophy (Fall/Winter 2015-16)

York University, Glendon College

Belief, Truth and Knowledge (Winter 2015)

Seneca College

Critical Thinking II (Winter 2015)
Critical Understanding of Research (Winter 2015)
Understanding Science and Technology (Fall 2014, Winter 2015)
Law, Ethics, and Social Responsibility (Fall 2014)

Selected Teaching Assistant Roles: Tutorial Leader

17th and 18th Century Philosophy (Summer 2013) Scientific Revolutions II (Winter 2011) Introduction to the History and Philosophy of Science (Fall 2010) Scientific Revolutions I (Fall 2009)

Selected Teaching Assistant Roles: Grader

Topics in History of Mathematics from 1700 (Winter 2012) Topics in History of Mathematics to 1700 (Winter 2008)

TEACHING AREAS

First and Second Year

Logic; Introduction to Philosophy; Science, Technology and Society; Critical Reasoning; Probability and Inductive Logic; Epistemology & Metaphysics

Third and Fourth Year

Philosophy of Science; Philosophy of Mathematics

PUBLICATIONS

Conference Proceedings

2010 Koo, A. (2010). The Middle Road: A Response to Colyvan. *Proceedings of the Canadian Society for History and Philosophy of Mathematics, 23,* 183-191.

Book Reviews

2016	Koo, A. (2016). An Aristotelian Realist Philosophy of Mathematics by James Franklin. <i>The</i>

Mathematical Intelligencer.

2014 Koo, A. (2014). The Application of Mathematics in Science. *Metascience*, 23(2), 263-268.

Manuscripts Under Review

Constructive Mathematical Empiricism Inference to the Best Explanation and Mathematical Realism Symbolic Logic as a Blended Course

Manuscripts in Preparation

Mathematical Explanation and the Indexing Argument

AWARDS AND HONOURS

2017	University of Toronto Advancing Teaching and Learning in Arts & Science (ATLAS) Fund – \$19,800
2017	University of Toronto Online Undergraduate Course Initiative (OUCI) Fund – \$6000
2017	University of Toronto Instructional Technology Innovation Fund (ITIF) Fund – \$2000

Alex Koo – Curriculum Vitae

2015	University of Toronto Governor General's Gold Medals Dissertation Award – Nominee
2015	Canadian Association for Graduate Studies Distinguished Dissertation Award – Nominee
2014	University of Toronto Mississauga Teaching Assistant Excellence Award – Finalist
2011	Ontario Graduate Scholarship – \$15,000
2010	University of Toronto Teaching Assistant Training Program Teaching Excellence Award – Finalist

ACADEMIC CONFERENCE ACTIVITY

Papers Presented

2018	Inference to the Best Explanation and Mathematical Realism, Canadian Philosophical Association
2017	Constructive Mathematical Empiricism, Canadian Philosophical Association
2011	Examining the Relationship Between Internal and External Mathematical Explanations, Canadian Mathematical Society Winter Meetings
2011	Explanation or Representation: The Role of Mathematics in the Sciences, Causality and Explanation in the Sciences
2011	A Problem with the Inference to the Best Explanation for Mathematical Realism, Workshop: The Role of Mathematics in Science
2010	A Challenge for the Indexing Argument Against Mathematical Realism, Philosophy of Logic, Mathematics, and Physics Graduate Conference Western University of Ontario
2010	Indexing vs. Explanation: Breaking the Deadlock, Canadian Society for the History and Philosophy of Science Annual Meeting
2010	The Middle Road to Nominalist: A Response to Colyvan, Canadian Society for the History and Philosophy of Mathematics Annual Meeting
2009	Mathematical Explanation in Science: Arguments for Mathematical Realism, Virginia Tech Graduate Philosophy Conference: Contemporary Philosophy of Science

CAMPUS AND DEPARTMENTAL TALKS

2018	The Game (Theory) of Love, Philosophy Course Union Symposium on Love
2017	The Hybrid Classroom, Teaching and Learning Community of Practice
2016	Technology in the Classroom, Teaching and Learning Community of Practice

2016 The Replication Crisis, Mutual Relevance Lecture Series

SERVICE TO PROFESSION

Journal Manuscript Review

International Studies in the Philosophy of Science (2016) Synthese (2015) Studies in History and Philosophy of Science (2013)

DEPARTMENTAL SERVICE AND OUTREACH

Science Rendezvous Departmental Organizer (2018)
Advancing Teaching and Learning in Arts & Science Showcase Presentation (2017)
PHL1 Mentorship Program for First Year Students (2017)
Logic Lab Supervisor (2016/17, 2017/18)
Learning Management Engine Representative (2016, 2017)
Philosophy Course Union Events (2015, 2016, 2017)
Pre UofT Academic Orientation Event Faculty Panel (2015, 2016)

EXTRA TRAINING

Course Design/Redesign Institute, Centre for Teaching Support & Innovation (2017)