

KONSTANTIN GENIN

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University of Toronto
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AREA OF SPECIALIZATION

Philosophy of Science, Formal Epistemology, Philosophy of Machine Learning and Statistics

AREA OF TEACHING COMPETENCE

Political Philosophy, Philosophy of Social Science, Rational Choice, Logic

ACADEMIC POSITIONS

Postdoctoral Fellow, Department of Philosophy
Faculty of Arts and Sciences, University of Toronto. Sep 2018-Present

EDUCATION

Doctor of Philosophy, Logic, Computation and Methodology Sep 2012 - Aug 2018
Department of Philosophy, Carnegie Mellon University
Dissertation Title: *The Topology of Statistical Inquiry*.
Dissertation Advisor: Kevin T. Kelly.

Master of Science, Logic, Computation and Methodology Sep 2012 - Jan 2015
Department of Philosophy, Carnegie Mellon University
Thesis Title: *Theory Choice, Theory Change, and Inductive Truth-Conduciveness*.
Thesis Advisor: Kevin T. Kelly.

Bachelors of Arts, Mathematics and Philosophy Sep 2005 - May 2009
Departments of Mathematics and Philosophy resp., Brown University
Magna Cum Laude

PUBLICATIONS

Konstantin Genin, Kevin T. Kelly. Learning, Theory Choice, and Belief Revision. *Studia Logica*, 2018. doi:10.1007/s11225-018-9809-5

Konstantin Genin, Kevin T. Kelly. The Topology of Statistical Verifiability. In Jérôme Lang, ed., *Proceedings of the Sixteenth Conference on Theoretical Aspects of Rationality and*

Knowledge (TARK), pages 236-250, 2017. doi:10.4204/EPTCS.251.17

Kevin T. Kelly, Konstantin Genin, Hanti Lin. Realism, Rhetoric, and Reliability. *Synthese* 193.4:1191-1223, 2016. doi:10.1007/s11229-015-0993-9

Konstantin Genin, Kevin T. Kelly. Theory Choice, Theory Change, and Inductive Truth-Conduciveness. In R. Ramanujam, ed., *Proceedings of the Fifteenth Conference on Theoretical Aspects of Rationality and Knowledge* (TARK), pages 111-121, 2015.
URL:<https://www.imsc.res.in/tark/TARK2015-proceedings.pdf>

Kevin T. Kelly, Konstantin Genin. Complexity, Ockham's Razor, and Truth. In M. Lissack and A. Graber, ed., *Modes of Explanation: Affordances for Action and Prediction*. Palgrave Macmillan, 2014. doi:10.1057/9781137403865_9

Ryan Carlson, Konstantin Genin, Martina Rau, Richard Scheines. Student Profiling from Tutoring System Log Data: When do Multiple Graphical Representations Matter? In S.K. D'Mello et. al. ed., *Proceedings of the 6th International Conference on Educational Data Mining* (EDM), 2013.

WORKS IN PROGRESS

Konstantin Genin. *Replication as Diachronic Reliability*. (Article in progress)

Konstantin Genin. *Simplicity and Scientific Progress*. (Article in progress)

Konstantin Genin. *Progressive Methods for Causal Discovery*. (Article in progress)

Kevin T. Kelly, Konstantin Genin. *Simplicity, and Truth: A Topological Vindication of Inductive Inference and Ockham's Razor*. (Book in progress)

TALKS

"Inductive vs. Deductive Statistical Inference" November, 2018
26th Biennial Meeting of the Philosophy of Science Association,
Seattle, Washington.

"The Topology of Statistical Inquiry" October 20, 2018
Workshop on Logic, Information, and Topology, CMU, Pittsburgh.

"Progressive Methods for Causal Discovery" September 22, 2018
Workshop on Foundations of Causal Discovery, CMU, Pittsburgh.

"Topological Epistemology of Science" June 23-29, 2018

with Kevin T. Kelly,
North American Summer School of Logic, Language and Information (NASSLLI),
CMU, Pittsburgh.

“Simplicity and Scientific Progress” June 2-3, 2018
7th CSLI Workshop on Logic, Rationality, and Intelligent Interaction,
Stanford, California.

Reply to “Two Cheers for Akrasia” (Kevin Dorst) January 2018
Meeting of the American Philosophical Association Eastern Division,
Savannah, Georgia.

“The Topology of Statistical Verifiability” July 2017
XVIth Conference on Theoretical Aspects of Rationality and Knowledge,
University of Liverpool.

“How Inductive is Bayesian Conditioning?” July 2017
Workshop in Experience and Updating,
University Bochum, Germany.

“The Topology of Statistical Inquiry.” June 2017
Workshop in Philosophy and Physical Computing,
Virginia Tech, Blacksburg (Invited Talk).

“What is Statistical Deduction?” June 2017
Workshop in Modality and Method,
CMU, Pittsburgh.

Reply to “Credal Omniscience and Relevance Confirmation.” (Joel Pust) March 2017
Meeting of the American Philosophical Association Central Division,
Kansas City.

“Deduction, Induction, Statistics and Topology.” November 2016
with Kevin T. Kelly,
Workshop in the Logical Structure of Correlated Information Change,
Institute for Logic, Language and Computation, Amsterdam.

“A Topological Explanation of Empirical Simplicity.” November 2016
with Kevin T. Kelly,
Philosophy of Science Association Meeting,
Atlanta.

“Deduction, Induction, and Statistical Inference.” September 2016
with Kevin T. Kelly,
Philosophy of Scientific Experimentation 5,

University of Belgrade.

“Simplicity and Scientific Questions.” June 2016
Questions and Attitudes Workshop,
Carnegie Mellon University, Pittsburgh.

“Theory Choice, Theory Change, and Inductive Truth Conduciveness.”

1. Bristol-Gröningen Conference in Formal Epistemology, July 2015
University of Bristol.
2. XV^{th} Conference on Theoretical Aspects of Rationality and Knowledge, June 2015
Carnegie Mellon.
3. Formal Epistemology Workshop, May 2015
University of Washington, St. Louis.
4. CSLI Workshop on Logic, Rationality, and Intelligent Interaction, May 2015
Stanford (Invited Talk).

“A Topological Theory of Empirical Simplicity.” November 2014
with Kevin T. Kelly, Hanti Lin,
Philosophy of Science Association Meeting,
Chicago.

“Learning with Ockham: Simplicity in Inductive Inference.” October 2014
Cool Logic Seminar,
Institute for Logic, Language and Computation, Amsterdam.

“An Epistemic Justification of Ockham’s Razor” October 2014
with Kevin T. Kelly,
René Descartes Lectures,
Tilburg University.

“The St. Petersburg Paradox.” July 2014
with Remco Heesen,
Swiss Institute Exhibition,
New York City.

“Contraction and the Loss of True Belief.”
with Ted Shear,

1. North American Summer School in Logic, Language, and Information, June 2014
University of Maryland, College Park.
2. Canadian Society for History and Philosophy of Science Meeting, May 2014
St. Catherine’s, Ontario.

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| 3. Association of Symbolic Logic North American Meeting,
University of Colorado, Boulder. | May 2014 |
| 4. Colombian Conference in Logic, Epistemology and Phil. of Science,
Universidad de Los Andes, Bogota. | February 2014 |
| “Tracking and Statistical Knowledge.”
11th Annual Graduate Student Conference in Epistemology,
University of Miami. | January 2014 |
| “When do Multiple Graphical Representations Matter?”
with Ryan Carlson, et. al.
Educational Data Mining Conference,
Memphis. | July 2013 |
| “Empirical Simplicity, Efficient Inquiry, and Ockham’s Razor.”
with Kevin T. Kelly, Hanti Lin,
Workshop on the Logic of Simplicity,
Carnegie Mellon, Pittsburgh. | June 2013 |

TEACHING EXPERIENCE

<i>Course Instructor</i> , Carnegie Mellon University	
Causation, Law and Social Policy	Spring 2018
Introduction to Political Philosophy	Summer 2017
Introduction to Philosophy	Fall 2016
Causation, Law and Social Policy	Spring 2016
Introduction to Philosophy	Summer 2015
Introduction to Philosophy	Summer 2014
<i>TA or Grader</i> , Carnegie Mellon University	
Philosophy of Science	Fall 2017
Social Structure, Public Policy and Ethics	Spring 2017
Philosophy of Religion	Spring 2014
Philosophy and Psychology	Fall 2013
Social Structure, Public Policy and Ethics	Spring 2013

DISCIPLINARY SERVICE

Referee, <i>Synthese</i>	October 2018
Referee, <i>Journal for General Philosophy of Science</i>	April 2018
Referee, Sixth International Conference on Logic, Rationality and Interaction	May 2017
Referee, <i>Erkenntnis</i>	May 2017

Organizer, Pitt-CMU Grad Conference in Philosophy	March 2017
Referee, <i>Episteme</i>	December 2016
Referee, <i>Erkenntnis</i>	January 2016
Referee, <i>Ergo</i>	June 2015
Referee, <i>Erkenntnis</i>	May 2015
Referee, <i>British Journal for Philosophy of Science</i>	February 2015
Referee, <i>Studies in History and Philosophy of Science</i>	July 2014
Referee, <i>analytica</i>	December 2014
Referee, Pitt-CMU Grad Conference in Philosophy	Fall 2014
Program Committee, NASSLLI	Summer 2014

MEMBERSHIPS

American Philosophical Association
Philosophy of Science Association

LANGUAGES

English — Native Speaker
Russian — Fluent
French — Intermediate
German — Beginner

OTHER WORK EXPERIENCE

Assistant Economist, Federal Reserve Bank of New York Financial Intermediation, Research and Statistics	Nov. 2010 - Jul. 2012
Software Developer, UBS Bank Fixed Income Analytics	Jul. 2009 - Nov. 2010