KONSTANTIN GENIN

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University of Toronto
Toronto, ON

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AREA OF RESEARCH

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

AREA OF TEACHING COMPETENCE

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

ACADEMIC POSITIONS

Postdoctoral Fellow, Department of Philosophy — September 2018-
Faculty of Arts and Sciences, University of Toronto.

EDUCATION

Doctor of Philosophy, Logic, Computation and Methodology — August 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 — January 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 — May 2009
Departments of Mathematics and Philosophy resp., Brown University
Magna Cum Laude

REFERENCES

Kevin T. Kelly
Professor
Department of Philosophy
Carnegie Mellon University
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Clark Glymour
Alumni University Professor
Department of Philosophy
Carnegie Mellon University
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PUBLICATIONS

Konstantin Genin. Full and Partial Belief. In Pettigrew, Richard and Weisberg, Jonathan eds., *The Open Handbook of Formal Epistemology*, fortchoming.

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 Macmillian, 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. Simplicity and Scientific Progress. (Article in progress)

Kevin T. Kelly, Hanti Lin, Konstantin Genin. The Miracle Argument for Scientific Realism: A Learning Theoretic Vindication. (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

"Simplicity and Scientific Progress" February 2020
Symposium: "Epistemology Meets Philosophy of Statistics"
Central Division Meeting of the American Philosophical Association
Chicago, Illinois. (Invited Talk).

"Progressive Methods for Causal Discovery" August 2019
Symposium: Observation to Causation: The Background Assumptions for Causal Discovery
16th Congress on Logic, Methodology and Philosophy of Science and Technology (CLMPST)
Prague, Czech Republic.

"Topological Learning Theory" June 2019
Workshop in Philosophy and Physical Computing,
Virginia Tech, Blacksburg. (Invited Talk).

"Progressive Methods for Statistical Inquiry" March 2019
Statistics Department Seminar,
Washington University, St. Louis. (Invited Talk)

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

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

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

"Topological Epistemology of Science" with Kevin T. Kelly, June 2018
North American Summer School of Logic, Language and Information (NASSLLI),
CMU, Pittsburgh.

"Simplicity and Scientific Progress" June 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
XVI^{th} 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,
Altanta.

"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 Univeristy, 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
   Univeristy of Maryland, College Park.
2. Canadian Society for History and Philosophy of Science Meeting, May 2014
   St. Catherine's, Ontario.
3. Association of Symbolic Logic North American Meeting, May 2014
   University of Colorado, Boulder.
4. Colombian Conference in Logic, Epistemology and Phil. of Science, February 2014
   Universidad de Los Andes, Bogota.

"Tracking and Statistical Knowledge." January 2014
11th Annual Graduate Student Conference in Epistemology,

University of Miami.

"When do Multiple Graphical Representations Matter?" July 2013
with Ryan Carlson, et. al.
Educational Data Mining Conference,
Memphis.

"Empirical Simplicity, Efficient Inquiry, and Ockham's Razor." June 2013
with Kevin T. Kelly, Hanti Lin,
Workshop on the Logic of Simplicity,
Carnegie Mellon, Pittsburgh.

TEACHING EXPERIENCE

Course Instructor, 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

TA or Grader, 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, *Synthese*	October 2018
Referee, *Journal for General Philosophy of Science*	April 2018
Referee, Sixth International Conference on Logic, Rationality and Interaction	May 2017
Referee, *Erkenntnis*	May 2017
Organizer, Pitt-CMU Grad Conference in Philosophy	March 2017
Referee, *Episteme*	December 2016
Referee, *Erkenntnis*	January 2016
Referee, *Ergo*	June 2015
Referee, *Erkenntnis*	May 2015
Referee, *British Journal for Philosophy of Science*	February 2015
Referee, *Studies in History and Philosophy of Science*	July 2014
Referee, *analytica*	December 2014
Referee, Pitt-CMU Grad Conference in Philosophy	Fall 2014

MEMBERSHIPS

American Philosophical Association
Philosophy of Science Association

LANGUAGES

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