

# KONSTANTIN GENIN

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## AREA OF SPECIALIZATION

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

## AREA OF TEACHING COMPETENCE

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

## EDUCATION

*Doctor of Philosophy*, Logic, Computation and Methodology Expected Summer 2017  
Department of Philosophy, Carnegie Mellon University  
Dissertation Title: “Ockham’s Razor and 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

## PUBLICATIONS

Konstantin Genin, Kevin T. Kelly. “The Topology of Statistical Verifiability.” Forthcoming in *Proceedings of the Sixteenth Conference on Theoretical Aspects of Rationality and Knowledge* (TARK), 2017.

Konstantin Genin, Kevin T. Kelly. “Learning, Theory Choice, and Belief Revision.” Forthcoming in *Studia Logica*.

Kevin T. Kelly, Konstantin Genin, Hanti Lin “Realism, Rhetoric, and Reliability.” *Synthese* 193.4: 1191-1223, 2016.

Konstantin Genin, Kevin T. Kelly. “Theory Choice, Theory Change, and Inductive Truth-Conduciveness.” *Proceedings of the Fifteenth Conference on Theoretical Aspects of Rationality and Knowledge (TARK)*, 2015.

Kevin T. Kelly, Konstantin Genin. “Complexity, Ockham’s Razor, and Truth.” Collected in *Modes of Explanation: Affordances for Action and Prediction*. Lissack, Michael ed. Palgrave Macmillan, 2014.

Ryan Carlson, Konstantin Genin, Martina Rau, Richard Scheines. “Student Profiling from Tutoring System Log Data: When do Multiple Graphical Representations Matter?” *Proceedings of the Educational Data Mining Conference*, 2013.

## WORKS IN PROGRESS

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

## TALKS

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<sup>th</sup>* 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).

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<sup>th</sup>* 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. Colombbian 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  
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  
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, 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

## 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