

# KONSTANTIN GENIN

Department of Philosophy  
Carnegie Mellon University  
5000 Forbes Avenue Pittsburgh, PA 15213

✉ konstantin.genin@gmail.com  
☎ +1 718.637.1493  
🌐 konstantingenin.com

## 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 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. “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 Macmillian, 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

Konstantin Genin, Kevin T. Kelly. “The Topology of Statistical Verifiability.” Submitted to *Theoretical Aspects of Rationality and Knowledge* (TARK) 2017 Conference.

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

## TALKS

“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.”

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

“A Topological Theory of Empirical Simplicity.” with Kevin T. Kelly, Hanti Lin, Philosophy of Science Association Meeting, Chicago.	November 2014
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“Learning with Ockham: Simplicity in Inductive Inference.” Cool Logic Seminar, Institute for Logic, Language and Computation, Amsterdam.	October 2014
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“An Epistemic Justification of Ockham’s Razor” with Kevin T. Kelly, René Descartes Lectures, Tilburg University.	October 2014
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“The St. Petersburg Paradox.” with Remco Heesen, Swiss Institute Exhibition, New York City.	July 2014
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“Contraction and the Loss of True Belief.”  
with Ted Shear,

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| 1. North American Summer School in Logic, Language, and Information,<br>University of Maryland, College Park. | June 2014     |
| 2. Canadian Society for History and Philosophy of Science Meeting,<br>St. Catherine’s, Ontario.               | May 2014      |
| 3. Association of Symbolic Logic North American Meeting,<br>University of Colorado, Boulder.                  | May 2014      |
| 4. Colombian Conference in Logic, Epistemology and Phil. of Science,<br>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	
Rational Choice	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	
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

### **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
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Software Developer, UBS Bank Fixed Income Analytics	Jul. 2009 - Nov. 2010
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### **WRITING SAMPLE ATTACHED BELOW**

I am attaching a first-authored paper forthcoming in *Studia Logica*. The submission is 28 pages and approximately 10,000 words, excluding the technical appendix.