KONSTANTIN GENIN

Cluster of Excellence Machine Learning: New Perspectives for Science Eberhard Karls Universität Tübingen Tübingen, Germany ⊠ konstantin.genin@uni-tuebingen.de

• konstantingenin.com

AREA OF SPECIALIZATION

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

ACADEMIC POSITIONS

Leader of Independent Research Group:

Spring 2020—Present

"Epistemology and Ethics of Machine Learning,"

at the Cluster of Excellence:

"Machine Learning: New Perspectives for Science,"

Eberhard Karls Universität, Tübingen.

Postdoctoral Fellow, Department of Philosophy

Fall 2018—Spring 2020

Faculty of Arts and Sciences, University of Toronto.

EDUCATION

Doctor of Philosophy, Logic, Computation and Methodology

Fall 2012—Spring 2018

Department of Philosophy, Carnegie Mellon University

Dissertation Title: The Topology of Statistical Inquiry. Dissertation Advisor: Kevin T. Kelly.

Fall 2012—Spring 2015

Master of Science, Logic, Computation and Methodology 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

Fall 2005—Spring 2009

Departments of Mathematics and Philosophy resp., Brown University

Magna Cum Laude

SUPERVISION

Postdoctoral Fellow, Dr. Vlasta Sikimić

March 2022—Present

Group Member "Epistemology and Ethics of Machine Learning,"

Project Title: Ethics, Privacy and Fairness in Digital Education Environments.

Postdoctoral Fellow, Dr. Sander Beckers

Summer 2021—Present

Group Member "Epistemology and Ethics of Machine Learning,"

Project Title: Causal Reasoning for the Ethical Development of AI.

Masters Student, Nikita Agarwal

Summer 2021—Present

Group Member "Epistemology and Ethics of Machine Learning,"

Project Title: Learning Conditional Independence and Dependence

PUBLICATIONS

Konstantin Genin, Conor Mayo-Wilson (forthcoming) "Success Concepts for Causal Discovery," Behaviormetrika.

Konstantin Genin (forthcoming) "On Falsifiable Statistical Hypotheses," *Philosophies*, 7(2).

Konstantin Genin (2021) "Statistical Undecidability in Linear, Non-Gaussian Models in the Presence of Latent Confounders," In Proceedings *Thirty-Fifth Conference on Neural Information Processing Systems* (NeurIPS, 2021).

Konstantin Genin, Thomas Grote (2021) "Randomized Controlled Trials in Medical AI: A Methodological Critique," *Philosophy of Medicine*, 2(1).

Konstantin Genin, Conor Mayo-Wilson (2020). "Statistical Decidability in Linear, Non-Gaussian Models," Spotlight in Causal Discovery and Causality-Inspired Machine Learning Workshop at the Thirty-Fourth Conference on Neural Information Processing Systems (NeurIPS, 2020).

Konstantin Genin, Franz Huber (2020). "Formal Representations of Belief," in Edward N. Zalta, ed., *The Stanford Encyclopedia of Philosophy.*

Konstantin Genin (2019). "Full and Partial Belief," in Richard Pettigrew and Jonathan Weisberg, eds., *The Open Handbook of Formal Epistemology*. PhilPapers Foundation. pp. 437-498.

Konstantin Genin, Kevin T. Kelly (2018). "Theory Choice, Theory Change and Inductive Truth-Conduciveness," *Studia Logica*, 107(5): 948-989.

Konstantin Genin, Kevin T. Kelly (2017). "The Topology of Statistical Verifiability," in

Jérôme Lang, ed., Proceedings of the Sixteenth Conference on Theoretical Aspects of Rationality and Knowledge (TARK), pp. 236-250.

Kevin T. Kelly, Konstantin Genin, Hanti Lin (2016). "Realism, Rhetoric, and Reliability," Synthese, 193(4): 1191-1223.

Konstantin Genin, Kevin T. Kelly (2015). "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), pp. 111-121.

Kevin T. Kelly, Konstantin Genin (2014). "Complexity, Ockham's Razor, and Truth," in M. Lissack and A. Graber, eds., *Modes of Explanation: Affordances for Action and Prediction*. Palgrave Macmillian, pp. 121-131.

Ryan Carlson, Konstantin Genin, Martina Rau, Richard Scheines (2013). "Student Profiling from Tutoring System Log Data: When do Multiple Graphical Representations Matter?" in S.K. D'Mello et. al. eds., *Proceedings of the 6th International Conference on Educational Data Mining* (EDM, 2013), pp. 12-20.

TALKS

"Success Concepts for Causal Discovery" International Workshop on Causality and Philosophy Shiga University, Kyoto (virtual).

March, 2022

"Against Predictive Invariance" with Alexander Tolbert, Philosophy of Science Association Conference Baltimore. November, 2021

"Exploitation, or Amelioration? Dueling Pictures of Data-Scientific Rationality" with Alexander Tolbert, Philosophy of Science Association Conference Baltimore. November, 2021

"Against Predictive Invariance" with Alexander Tolbert,
Bias and Discrimination in Algorithmic Decision-Making
Leibniz Universität, Hannover.

October, 2021

"Statistical Decidability in Linear, Non-Gaussian Causal Models" with Conor Mayo-Wilson,

September, 2021

Combining Probability and Logic (Progic 2021)

Ludwing-Maximilians-Universität München, Virtual Conference.

"Statistical Decidability in Confounded, Linear Non-Gaussian Causal Models" July, 2021 Neglected Assumptions in Causal Inference Workshop 38th International Conference on Machine Learning (ICML 2021) Virtual Conference.

"Clinical Equipoise and Causal Discovery"

July, 2021

Seminar Series of the Cluster of Excellence:

"Machine Learning: New Perspectives for Science" Eberhard Karls Universität, Tübingen (Virtual).

"Statistical Decidability in Linear, Non-Gaussian Causal Models" with Conor Mayo-Wilson,

December, 2020

Causal Discovery and Causality-Inspired Machine Learning Workshop 34th Conference on Neural Information Processing Systems (NeurIPS 2020)

Virtual Conference.

"Morals and Methodology"

December, 2020

Seminar Series of the Cluster of Excellence:

"Machine Learning: New Perspectives for Science"

Eberhard Karls Universität, Tübingen (Virtual).

"Simplicity and Scientific Progress"

1. Logic and Philosophy of Science Research Group Seminar, University of Toronto. October 2019

2. American Philosophical Association, Central Division Chicago.

February 2020

3. Foundations of Probability Seminar, Princeton (Virtual).

November 2020

4. Logic and Interactive Rationality Seminar, Amsterdam (Virtual). December 2020

"Progressive Methods for Causal Discovery"

August, 2019

16th International Congress

Logic, Methodology and Philosophy of Science and Technology (CLMPST)

Czech Technical University, Prague.

 $\hbox{``Topological Learning Theory''}$

June, 2019

Workshop in Philosophy and Physical Computing,

Virginia Tech, Blacksburg.

"Progressive Methods for Statistical Inquiry" Statistics Department Seminar, Washington University, St Louis.

March, 2019

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

"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" with Kevin T. Kelly,

June 23-29, 2018

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

 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) Meeting of the American Philosophical Association Central Division.

March 2017

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." with Kevin T. Kelly, Philosophy of Science Association Meeting,

November 2016

Altanta.

"Deduction, Induction, and Statistical Inference." with Kevin T. Kelly, Philosophy of Scientific Experimentation 5, University of Belgrade.

September 2016

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

"Theory Choice, Theory Change, and Inductive Truth Conduciveness."

1. Bristol-Gröningen Conference in Formal Epistemology, University of Bristol. July 2015

- 2. XV^{th} Conference on Theoretical Aspects of Rationality and Knowledge, Unne 2015 Carnegie Mellon.
- 3. Formal Epistemology Workshop, University of Washington, St. Louis.

May 2015

4. CSLI Workshop on Logic, Rationality, and Intelligent Interaction, 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

"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" with Kevin T. Kelly, René Descartes Lectures,

October 2014

Tilburg University.

"The St. Petersburg Paradox." with Remco Heesen,
Swiss Institute Exhibition,
New York City.

July 2014

"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."
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.

"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

July 2013

TEACHING EXPERIENCE

Course Instructor, Eberhard Karls Universität Tübingen Algorithmic Fairness

Summer 2022

Course Instructor, Carnegie Mellon University Causation, Law and Social Policy Introduction to Political Philosophy

Spring 2018 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

Program Committee, Euro. Conference on Machine Learning (ECML 2022) Program Committee, Uncertainty in Aritificial Intelligence (UAI 2022) Referee, Ergo Referee, Philosophies Coctober 2021 Referee, Analysis Referee, European Journal for Philosophy of Science Referee, Internet Encylopedia of Philosophy Referee, Ergo Referee, Synthese Referee, Philosophy of Science Referee, Philosophy of Science Referee, Synthese Referee, Synthese Referee, Synthese Referee, Synthese Referee, Journal for General Philosophy of Science Referee, Synthese Referee, Sixth International Conference on Logic, Rationality and Interaction Referee, Erkenntnis Nay 2017 Referee, Episteme December 2016 Referee, Episteme December 2016 Referee, Erkenntnis May 2017 Referee, Erkenntnis Seferee, Erkenntnis Agolia June 2015 Referee, Erkenntnis May 2016 Referee, Erkenntnis May 2017 Referee, Erkenntnis December 2016 Referee, Erkenntnis May 2015 Referee, Erkenntnis May 2015 Referee, Erkenntnis May 2015 Referee, Erkenentnis May 2015 Referee, British Journal for Philosophy of Science February 2015 Referee, Studies in History and Philosophy of Science February 2015 Referee, Pitt-CMU Grad Conference in Philosophy Fall 2014 Referee, Pitt-CMU Grad Conference in Philosophy Fall 2014 Program Committee, NASSLLI	Conf. Organizer, Philosophy of Science Meets Machine Learning (PhilML	2022) Oct 2022
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Program Committee, NASSLLI Summer 2014	Referee, Pitt-CMU Grad Conference in Philosophy	Fall 2014
	Program Committee, NASSLLI	Summer 2014

MEMBERSHIPS

 ${\bf American\ Philosophical\ Association}$

Philosophy of Science Association

LANGUAGES

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