
CONTACT INFORMATION	College of Information and Computer Sciences 140 Governors Dr, Amherst, MA, 01003	
RESEARCH INTERESTS	Differential Privacy, Explainable AI, Learning Theory, Causation, Formal Epistemology	
EDUCATION	University of Massachusetts, Amherst, MA Ph.D, Computer Science Advisor: Gerome Miklau	<i>Expected: 2025</i>
	Miami University, Oxford, OH Graduate study in Mathematics Advisor: Paul Larson	2015 to 2017
	Carnegie Mellon University, Pittsburgh, PA Summer School in Logic and Formal Epistemology	2015
	Georgia State University, Atlanta, GA B.S., Economics B.A., Philosophy <i>Summa Cum Laude</i> Thesis: <i>Against Indifference: Popper's Assumption of Distribution Preference</i> Advisor: Yongsheng Xu , Department of Economics	2014 2014
TEACHING	Instructor of Record (Miami University) <i>Finite Mathematical Models</i> <i>Precalculus</i> Teaching Assistant (Miami University) <i>Great Theorems of Mathematics</i>	Spring 2016 Fall 2015, Fall 2016 Spring 2016
PROFESSIONAL EXPERIENCE	Senior Data Scientist Data, Discovery, and Decision Science, Allstate, Chicago, IL Managed shared economy data science team collaborating with leading companies on joint data science projects, led efforts in auto and property underwriting to develop predictive models from ideation to deployment in production, and supported projects such as building computer vision models for Allstate's QuickFoto Claim product. Affiliate Researcher Fiscal Research Center, Georgia State University, Atlanta, GA Member of a team investigating earnings mobility among low income individuals in Georgia by developing new methods of mobility measurement, writing software for policy analysts, and building econometric models using government administrative data from the Department of Human Services and the Department of Labor. Research Assistant	2/2017 to 7/2020 1/2014 to Present Summer 2013
	Department of Economics, Georgia State University, Atlanta, GA Advisor: Jim Marton Estimated disenrollment likelihoods and tested for interaction effects given various demographic and health characteristics within Georgia's PeachCare for Kids program.	

CONFERENCE & JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 8. Brett Mullins. “The Shape of Explanations: A Topological Account of Rule-Based Explanations in Machine Learning” <i>AAAI Workshop on Representation learning for Responsible Human-Centric AI</i>, 2023. 7. Ryan McKenna, Brett Mullins, Daniel Sheldon, Gerome Miklau. “AIM: An Adaptive and Iterative Mechanism for Differentially Private Synthetic Data” <i>Proceedings of the 48th International Conference on Very Large Databases (VLDB)</i>, 2022. 6. Brett Mullins, David Sjoquist, Sally Wallace. “Economic Mobility and the Great Recession” <i>Social Science Quarterly</i>, vol. 102 (6), 2021. 5. Brett Mullins. “Gauthier, Equilibrium, and the Emergence of Morality” <i>Dialogue</i>, vol. 55 (4), 2016. 4. Brett Mullins, Mark Rider, David Sjoquist, Sally Wallace. “Long Run Earnings Mobility among Low Income Individuals” <i>Journal of Economics and Public Finance</i>, vol. 2, 154-170, 2016. 3. Brett Mullins, Mark Rider, David Sjoquist, Sally Wallace. “Trends in TANF and SNAP Participation in Georgia” <i>Andrew Young School of Policy Studies</i>, Fiscal Research Center Report, 2015. 2. Brett Mullins, Mark Rider, David Sjoquist, Sally Wallace. “Helping Hand or Anchor: The Effect of Public Assistance on Income Mobility among the Poor” <i>Proceedings of the National Tax Association’s Annual Conference on Taxation</i>, 2014. 1. Brett Mullins. “Recollection and Second Order Skepticism” <i>Marist Undergraduate Philosophy Journal</i>, 2013. 														
MISC PUBLICATIONS	“Parsing Nested JSON Records in Python” featured in <i>PyCoder’s Weekly</i> , iss. 374, 2019.														
SOFTWARE	“mobilityIndexR: Calculate Transition Matrices and Mobility Indices” with Trevor Harkreader. R package version 0.2.1. Available on CRAN.														
WORKING PAPERS	“Infinite Cycles and the Graphical Approach to Epistemic Justification”														
COMPETITIONS, AWARDS, AND HONORS	<table> <tr> <td>NIST Differential Privacy Challenge, 1st Place</td> <td>2021</td> </tr> <tr> <td>Top Three Presentation Award, MU Graduate Forum</td> <td>2015</td> </tr> <tr> <td>Graduate Student Paper Award, Indiana Philosophical Association</td> <td>2014</td> </tr> <tr> <td>Phi Sigma Tau Scholar Travel Stipend</td> <td>3/2014, 9/2014</td> </tr> <tr> <td>George W. Beiswanger Award: Outstanding Student in Philosophy, Department of Philosophy, Georgia State University</td> <td>2014</td> </tr> <tr> <td>Research Excellence in Economics Program (Re^2P)</td> <td>2013 & 2014</td> </tr> <tr> <td>Socrates Award: Outstanding Student in Philosophy, Department of History & Philosophy, University of North Georgia</td> <td>2012</td> </tr> </table>	NIST Differential Privacy Challenge, 1st Place	2021	Top Three Presentation Award , MU Graduate Forum	2015	Graduate Student Paper Award , Indiana Philosophical Association	2014	Phi Sigma Tau Scholar Travel Stipend	3/2014, 9/2014	George W. Beiswanger Award: Outstanding Student in Philosophy , Department of Philosophy, Georgia State University	2014	Research Excellence in Economics Program (Re^2P)	2013 & 2014	Socrates Award: Outstanding Student in Philosophy , Department of History & Philosophy, University of North Georgia	2012
NIST Differential Privacy Challenge, 1st Place	2021														
Top Three Presentation Award , MU Graduate Forum	2015														
Graduate Student Paper Award , Indiana Philosophical Association	2014														
Phi Sigma Tau Scholar Travel Stipend	3/2014, 9/2014														
George W. Beiswanger Award: Outstanding Student in Philosophy , Department of Philosophy, Georgia State University	2014														
Research Excellence in Economics Program (Re^2P)	2013 & 2014														
Socrates Award: Outstanding Student in Philosophy , Department of History & Philosophy, University of North Georgia	2012														
TOOLS & LANGUAGES	R, Python, L ^A T _E X, Groovy, SAS, reveal.js, Elastic Stack, Keras, Tensorflow, Agile/Scrum, German (<i>Elementary</i>)														
PROFESSIONAL MEMBERSHIPS	American Economic Association Society for Exact Philosophy														