
CONTACT INFORMATION	College of Information and Computer Sciences 140 Governors Dr, Amherst, MA, 01003	
RESEARCH INTERESTS	Topological Learning Theory, Differential Privacy, Explainable AI, Formal Epistemology, Causation, Public Finance and Income Mobility	
EDUCATION	University of Massachusetts, Amherst, MA Ph.D, Computer Science Advisor: Gerome Miklau	<i>Expected: 2024</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>	Spring 2016 Fall 2015, Fall 2016
	Teaching Assistant (Miami University) <i>Great Theorems of Mathematics</i>	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.	2/2017 to 7/2020
	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.	1/2014 to Present
	Research Assistant 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.	Summer 2013

CONFERENCE & JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 6. “Economic Mobility and the Great Recession” with David Sjoquist and Sally Wallace. <i>Social Science Quarterly</i>, 2021. 5. “Gauthier, Equilibrium, and the Emergence of Morality” <i>Dialogue</i>, vol. 55 (4), 2016. 4. “Long Run Earnings Mobility among Low Income Individuals” with Mark Rider, David Sjoquist, and Sally Wallace. <i>Journal of Economics and Public Finance</i>. vol. 2, 154-170, 2016. 3. “Trends in TANF and SNAP Participation in Georgia” with Mark Rider, David Sjoquist, and Sally Wallace. <i>Andrew Young School of Policy Studies</i>, Fiscal Research Center Report, 2015. 2. “Helping Hand or Anchor: The Effect of Public Assistance on Income Mobility among the Poor” with Mark Rider, David Sjoquist, and Sally Wallace. <i>Proceedings of the National Tax Association’s Annual Conference on Taxation</i>, 2014. 1. “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.														
SELECTED PRESENTATIONS	<p>“A Topological Account of Rule-Based Explanations in Machine Learning” UMass CS Theory Seminar, November 2021</p> <p>“Using Linked Administrative Data to Measure Earnings Mobility of Public Assistance Recipients during the Great Recession” with Sally Wallace and David Sjoquist International Conference on Administrative Data Research, December 2019</p> <p>“Infinite Cycles and the Graphical Approach to Epistemic Justification.” Society for Exact Philosophy, May 2019</p>														
WORKING PAPERS	<p>“Identifying the Most Explainable Classifier”</p> <p>“Infinite Cycles and the Graphical Approach to Epistemic Justification”</p>														
COMPETITIONS, AWARDS, AND HONORS	<table border="0" style="width: 100%;"> <tr> <td>NIST Differential Privacy Challenge, 1st Place</td> <td style="text-align: right;">2021</td> </tr> <tr> <td>Top Three Presentation Award, MU Graduate Forum</td> <td style="text-align: right;">2015</td> </tr> <tr> <td>Graduate Student Paper Award, Indiana Philosophical Association</td> <td style="text-align: right;">2014</td> </tr> <tr> <td>Phi Sigma Tau Scholar Travel Stipend</td> <td style="text-align: right;">3/2014, 9/2014</td> </tr> <tr> <td>George W. Beiswanger Award: Outstanding Student in Philosophy, Department of Philosophy, Georgia State University</td> <td style="text-align: right;">2014</td> </tr> <tr> <td>Research Excellence in Economics Program (<i>Re²P</i>)</td> <td style="text-align: right;">2013 & 2014</td> </tr> <tr> <td>Socrates Award: Outstanding Student in Philosophy, Department of History & Philosophy, University of North Georgia</td> <td style="text-align: right;">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 (<i>Re²P</i>)	2013 & 2014	Socrates Award: Outstanding Student in Philosophy , Department of History & Philosophy, University of North Georgia	2012
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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														