

CONTACT INFORMATION	222 Merchandise Mart Plaza, Suite 875 Chicago, IL, 60654
RESEARCH INTERESTS	Learning Theory, Causal Modeling, Formal Epistemology, Explainable/Interpretable Machine Learning, Algorithmic Fairness, Public Finance and Income Mobility
EDUCATION	<p>Miami University, Oxford, OH M.S., Mathematics, <i>Expected: Spring 2020</i> Comprehensive Exams: Statistical Theory, Real Analysis Thesis: <i>Classifying the Interpretability of Machine Learning Models via Topological Complexity</i> Advisor: Paul Larson, Department of Mathematics</p> <p>Carnegie Mellon University, Pittsburgh, PA Summer School in Logic and Formal Epistemology June 2015</p> <p>Georgia State University, Atlanta, GA B.S., Economics, May 2014 B.A., Philosophy, May 2014 <i>Summa Cum Laude</i> Thesis: <i>Against Indifference: Popper's Assumption of Distribution Preference</i> Advisor: Yongsheng Xu, Department of Economics</p>
TEACHING	<p>Instructor of Record (Miami University) <i>Finite Mathematical Models</i> Spring 2016 <i>Precalculus</i> Fall 2015, Fall 2016</p> <p>Teaching Assistant (Miami University) <i>Great Theorems of Mathematics</i> Spring 2016</p>
PROFESSIONAL EXPERIENCE	<p>Senior Data Scientist Summer 2016, February 2017 to Present Data, Discovery, and Decision Science, Allstate, Chicago, IL Plan, design, manage, and implement improvements to the underwriting and claims processes for auto by utilizing external and unstructured data. Support projects with predictive modeling including image recognition and object detection for photo models, real-time production implementation, and randomized experiments.</p> <p>Affiliate Researcher January 2014 to Present Fiscal Research Center, Georgia State University, Atlanta, GA Member of a team investigating earnings mobility among low income individuals in Georgia. We build econometric models and develop new methods of mobility measurement using government administrative data from the Department of Human Services (DHS) and the Department of Labor (DOL).</p> <p>Research Assistant May 2013 to August 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.</p>

PUBLICATIONS	<ol style="list-style-type: none"> 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.
SELECTED PRESENTATIONS	<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> <p>“Measuring the Impact of Social Programs on Income Mobility Using Big Data.” Next Generation of Public Finance Conference, May 2016</p> <p>“Non-Arbitrary Inference: An Objection to Strong Bayesianism.” Indiana Philosophical Association Fall Meeting, November 2015</p> <p>“Mathematics Preparation & Intermediate Economics.” Miami University Graduate Research Forum, October 2015</p> <p>“On Probability Assessment in the Original Position” Formal Ethics 2015, July 2015</p> <p>The Pittsburgh Area Philosophy Colloquium, September 2014</p>
ACADEMIC HONORS	<p>Top Three Presentation Award, MU Graduate Forum December 2015</p> <p>Research Excellence in Economics Program (Re^2P) Sept. 2013 to Dec. 2014</p> <p>Graduate Student Paper Award, Indiana Philosophical Association October 2014</p> <p>Phi Sigma Tau Scholar Travel Stipend March 2014, September 2014</p> <p>George W. Beiswanger Award: Outstanding Student in Philosophy, Department of Philosophy, Georgia State University February 2014</p> <p>Socrates Award: Outstanding Student in Philosophy, Department of History & Philosophy, University of North Georgia April 2012</p>
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	<p>American Economic Association</p> <p>Missouri Valley Economic Association</p> <p>Society for Exact Philosophy</p>