

Brett Mullins

CONTACT INFORMATION	222 Merchandise Mart Plaza, Suite 875 Chicago, IL, 60654	brettcnullins@gmail.com
RESEARCH INTERESTS	Topological Learning Theory, Causal Discovery, and Applied Econometrics	
ADDITIONAL INTERESTS	History and Foundations of Probability and Statistics, Computable Analysis, Formal Epistemology, Income Mobility	
EDUCATION	<p>Miami University, Oxford, OH M.S., Applied Mathematics, <i>Expected: Spring 2018</i> Comprehensive Exams: Statistical Theory Thesis: <i>Formal Learning Results on Admissible Representations</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>Data Scientist Summer 2016, February 2017 to Present Data, Discovery, and Decision Science, Allstate, Chicago, IL Support projects such as QuickFoto Claims, total loss modeling, and allocating rental vehicle time with predictive modeling, real-time production implementation, and randomized field trials. Co-developed a framework to support renewal underwriting decisions for auto policies using flexible mixed-integer programming techniques.</p> <p>Research Affiliate January 2014 to Present Fiscal Research Center, Georgia State University, Atlanta, GA Member of a group 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"> 1. “Gauthier, Equilibrium, and the Emergence of Morality.” <i>Dialogue</i>, vol. 55 (4), 2016. 2. “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. 4. “Recollection and Second Order Skepticism.” <i>Marist Undergraduate Philosophy Journal</i>, 2015.
SELECTED PRESENTATIONS	<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>“Total Earnings Mobility among Public Assistance Recipients in Georgia.” Missouri Valley Economic Association Annual Meeting, 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> <p>“Helping Hand or Anchor: The Effect of Public Assistance on Income Mobility among the Poor.” National Tax Association’s Annual Conference on Taxation, November 2014</p> <p>“The Effect of Mathematics Courses on Outcomes in Undergraduate Intermediate Economics: New Evidence.” Missouri Valley Economic Association Annual Meeting, October 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 Mathematical Society</p> <p>American Philosophical Association</p> <p>Phi Sigma Tau (Honors Society in Philosophy)</p> <p>Missouri Valley Economic Association</p>