

Mary (Vansuch) Silverglate

marysilverglate@gmail.com | <https://marysilverglate.com>

EDUCATION

Saint Louis University, Saint Louis, MO

M.A. Mathematics, Expected May 2023

GPA: 3.88

Organizations: Association for Women in Math (Founding Graduate Student President, 2021-2023)
Graduate Student Association (Mathematics Department Representative, 2022-2023)
Pi Mu Epsilon (Mathematics Honors Society)

Thesis: "A Survey of High-Dimensional Missing Data Techniques" (in progress)

Advisor: Darrin Speegle

Relevant Coursework: Applied Regression Analysis, Statistical Computing, Linear Algebra, Probability Theory

Johns Hopkins University, Baltimore, MD

M.S. Education, August 2019

GPA: 3.85

Relevant Coursework: Blended and Hybrid Learning, Teaching Students with Disabilities, Classroom Management

The University of Chicago, Chicago, IL

B.A. Statistics and B.A. Economics, with honors, June 2017

GPA: 3.51

Thesis: "The Effects of Mandatory and Free College Admission Testing on College Enrollment and Completion"
David S. Hu Award for Honors Thesis (one of nine students chosen)

Advisor: Melissa Tartari

Relevant Coursework: Econometrics, Categorical Data, Probability Models, Statistical Theory and Methods

EXPERIENCE

Saint Louis University, *Graduate Teaching Assistant*, St. Louis, MO (August 2021– Present)

Adjunct Faculty Instructor, St. Louis, MO (August 2020 – May 2021)

- Instructor of record for the following courses, each with approximately 30 undergraduates per semester:
 - "MATH 1320: Survey of Calculus" (Business Calculus), Fall 2022 and Spring 2023
 - "MATH 1200: College Algebra", Summer 2022
 - "STAT 1100: Introduction to Statistics", Fall 2021 and Spring 2022
 - "STAT 1300: Elementary Statistics with Computers", as dual enrollment course at Lift for Life Academy during the 2020-2021 school year
- Design lessons and assessments, give timely feedback, and hold office hours three times a week
- Earned approximately 20% above average teaching evaluations compared to other mathematics instructors

Saint Louis Community College, *Adjunct Faculty Instructor*, St. Louis, MO (June 2022– July 2022)

- Instructor of record for approximately 25 undergraduate students in "MATH 140: Intermediate Algebra"
- Created live virtual lectures, gave timely feedback, and held office hours

ETS Assessment, *AP Statistics Exam Reader*, Kansas City, MO (June 2022)

- Graded national AP statistics exam according to standards

Lift for Life Academy High School, *Mathematics Teacher*, St. Louis, MO (July 2019 – July 2021)

- Teach Algebra 1A, Algebra 1B, Algebra II, Geometry, and College Statistics, had highest Algebra 1A pass rate
- Differentiate mastery-based curriculum to meet students' needs

District of Columbia Public Schools, *Mathematics Teacher*, Washington, DC (August 2017 – June 2019)

- Teach approximately 100 students each year, resulting in over 75% of students meeting or exceeding growth goals
- Develop curriculum for blended learning "math intervention" classes for students who are three grade levels behind

Teach for America, Corps Member, Washington, DC (June 2017 – June 2019)

- Selected from over 49,000 applicants to be a member of a corps of 3,500 recent graduates and transitioning professionals committed to teaching high-demand subjects in under-resourced schools

The University of Chicago, Teaching Assistant, Chicago, IL (April 2017 – June 2017)

- Provide feedback and grade weekly problem sets for Introduction to Microeconomics class of 76 students

Urban Innovation Analysis, Research Assistant, Chicago, IL (January 2015- June 2017)

- Analyze multinational datasets using multi-variable regression techniques, causal inference, and descriptive statistics in Stata and SPSS for interdisciplinary projects led by University of Chicago Professor Terry Clark
- Conduct largely independent research project analyzing longitudinal data of voting patterns

WIT, ACT Mathematics Instructor, Chicago, IL (April 2014 – June 2017)

- Teach free ten-week course on ACT mathematics, improving student scores 15 percentile points on average
- Compile and communicate statistics on student growth to secure funding

Acumen, LLC, Data and Policy Analyst Intern, Burlingame, CA (June 2016-August 2016)

- Analyze healthcare data and policy for consulting projects in Stata
- Investigate the change in the enrollment of different types of insurance over time, comparing the statistical accuracy of a variety of government surveys

US Department of Commerce, Office of the Chief Economist Intern, Washington, DC (June 2015- August 2015)

- Research, clean data, and write reports weekly on economic policy for public consumption

The University of Chicago School of Public Policy, Research Assistant, Chicago, IL (April 2014-December 2014)

- Create Python scripts analyzing weather and pollution data in ArcGIS for Professor Steve Cicala.
- Reviewed economic literature on early childhood education interventions and analyzed descriptive statistics of experimental data in Stata for Professor Ariel Kalil's Behavioral Insights in Parenting Lab

SKILLS AND CERTIFICATIONS

Programming Languages: R, Stata, SPSS, Python

Research: Statistical computing, Regression analysis, Bayesian statistics, Econometrics

Teaching: Desmos, Canvas, Google Suite, Microsoft Suite, Zoom, MyMathLab, MyOpenMath, IXL, i-Ready, Khan Academy, Blended Learning, Mastery Based Learning, Common Core, Universal Design, Remote Instruction

Mathematics 7-12 Certification (Missouri, District of Columbia)