

# Mary (Vansuch) Silverglate

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## EDUCATION

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**Saint Louis University**, Saint Louis, MO

**M.A. Mathematics**, Expected May 2023

### Organizations:

Association for Women in Mathematics, *Student Chapter President and Founding Member*

Graduate Student Association, *Member*

**Johns Hopkins University**, Baltimore, MD

**M.S. Education**, August 2019

**The University of Chicago**, Chicago, IL

**B.A. Statistics**, June 2017

**B.A. Economics**, June 2017

### Honors/Awards:

Honors in College, Honors in Economics, Dean's List

David S. Hu Award in Economics for honors thesis "*Evaluating the Effects of Mandatory College Admissions Exams on College Enrollment and Completion*"

## TEACHING EXPERIENCE

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

**Adjunct Faculty Instructor**, *Saint Louis University*, St. Louis, MO, August 2020 – May 2021

- Teach "Introduction to Statistics" course for health science majors as Graduate Teaching Assistant.
- Teach Dual Enrollment "Elementary Statistics with Computers" as 1818 Adjunct Faculty Instructor.
- Design lessons and assessments, give timely feedback, and hold office hours three times a week.
- Earned above average teaching evaluations.

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

- Teach Algebra 1A, Algebra 1B, Algebra II, Geometry, and College Statistics at Title I charter school.
- Differentiate mastery-based curriculum to meet students' needs, resulting in the highest Algebra 1A pass rate in the school during the 2020-2021 school year.
- Collaborate regularly with colleagues to develop curriculum and analyze student data.
- Adapt to virtual and hybrid teaching during the 2020-2021 school year.

**Mathematics Teacher**, *Kelly Miller Middle School*, Washington, DC, August 2017 – June 2019

- Teach and attend to socio-emotional needs of 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade math students in a Title I DC public school.
- Utilize a blended learning model in math intervention block with i-Ready, IXL, and Kahn Academy.
- Modify curriculum for English language and special education learners, with 75% of classes being integrated special education during 2017-2018 school year.

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

- Complete over 100 hours of coursework in instructional planning, classroom management, learning theory, literacy, and diversity training.
- Responsible for developing and implementing a five-week summer school curriculum teaching Algebra I at Teach for America summer institute.
- Create daily lesson plans and weekly assessments in order to work towards 80% mastery.

**Teaching Assistant**, *University of Chicago*, Chicago, IL, April 2017 – June 2017

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

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

- Teach free ten-week course on ACT mathematics, improving student scores 15 percentile points on average.
- Compile statistics to evaluate program effectiveness and secure funding.

## RESEARCH EXPERIENCE

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### **Research Assistant, *Urban Innovation Analysis***, Chicago, IL, January 2015- June 2017

- Assist in research for multiple interdisciplinary projects led by University of Chicago Professor Terry Clark studying the impact of the arts and cultural spaces on economic development and political participation.
- Conduct largely independent research project, “Participation and Local Political Culture: Analysis of Recent Nationwide Trends in Volunteering” analyzing longitudinal data of voting patterns.
- Analyze large datasets with multi-variable regression techniques, causal inference, and descriptive statistics in Stata and SPSS.
- Presented findings in accessible format for social scientists.

### **Data and Policy Analyst Intern, *Acumen, LLC***, 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.

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

- Research and write reports weekly on economic policy for public consumption.
- Compile and clean data in Stata for the paper "Utilization of Women-Owned Businesses in Federal Prime Contracting", detailing how and where federal government contracts discriminate against women-owned businesses.

### **Research Assistant, *University of Chicago Harris School of Public Policy***, Chicago, IL, April 2014-December 2014

- Create Python scripts analyzing weather and pollution data in ArcGIS for Professor Steve Cicala for paper “Imperfect Markets versus Imperfect Regulation in U.S. Electricity Generation”.
- Reviewed economic literature on early childhood education interventions and analyzed experimental data in Stata for Professor Ariel Kalil’s Behavioral Insights in Parenting Lab.

## CONFERENCE PRESENTATIONS

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### **Midwest Political Science Association Conference**, Chicago, IL, 2017

Presented “Policy Impacts of Bohemia and Arts on Walking, Bicycle, and Public Transit Use in US Cities” at MPSA conference, co-authored with Hyesun Jeong and Terry Clark.

## SKILLS

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### **Programming Languages**

- Stata
- R
- SPSS
- Python

### **Online Mathematics Teaching Tools**

- Desmos
- IXL
- Khan Academy
- ALEKS
- Deltamath
- Pearson MyMathLab

### **Communication**

- Communicating effectively with students, families, and colleagues of diverse cultural and linguistic backgrounds.
- Writing academic papers and reports for both academic and public audiences.

## CERTIFICATIONS

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**Mathematics 7-12 Certification**, Missouri

