

Mary Vansuch

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EDUCATION

Saint Louis University, Saint Louis, MO

M.A. Mathematics, Expected May 2023

GPA: 4.0/4.0

Johns Hopkins University, Baltimore, MD

M.S. Education, August 2019

GPA: 3.82/4.0

The University of Chicago, Chicago, IL

B.A. Statistics, June 2017

B.A. Economics, June 2017

GPA: 3.51/4.0

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

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", an introductory statistics course for health science majors as Graduate Teaching Assistant
- Teach Dual Enrollment "Elementary Statistics with Computers" as 1818 Adjunct Faculty Instructor

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

- Teach Algebra I, Algebra II, Geometry, and College Statistics at Title I charter school.
- Differentiate mastery-based curriculum to meet students' needs, resulting in the highest Algebra A 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 6th, 7th, and 8th 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, only one of which had a special education co-teacher.

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 plan 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

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

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

Programming Languages

- Stata
- R
- SPSS
- Python

Online Mathematics Teaching Tools

- Desmos, including computation layer
- IXL
- Khan Academy
- i-Ready
- ALEKS
- Deltamath

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

Mathematics 7-12 Certification, Missouri

Mathematics 7-12 Certification, District of Columbia