

# Gregory Schreiter

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**Personal Statement:** Recent graduate of the Georgia Tech M.S. Analytics program looking to leverage my new skills in programming, machine learning and operations research with my experience in education and healthcare to help companies as a data scientist / analyst / statistician or in a related scientific role.

## EXPERIENCE

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### Georgia Institute of Technology

Jan 2021 – Present

*Instructional Associate* – Atlanta, GA (Remote)

Head Teacher's Assistant for Bayesian Statistics (ISyE 6420) under Professor Roshan Joseph

- Instructed students via Piazza Q&A forum in the algebra and calculus behind various posterior distribution derivations
- Held weekly virtual office hours; answered student questions live and explained concepts such as Bayesian regression
- Helped develop new instructional content and course slides; translated OpenBUGS examples into R and Python

### Possibilities of Southern MN

July 2011 – Dec 2021

*Personal Support Staff* – Rochester, MN

- Assisted in the home care for individuals with disabilities and help them to lead a more fulfilling life
- Certified in first aid and universal health precautions to both mitigate and remedy injuries
- Applied principles of positive behavior support and person-centered planning to help guide client development

### Self-Employed

July 2011 – Aug 2020

*Private Tutor* – Rochester, MN

- Instructed students in a wide range of mathematical and statistical subjects from elementary to college level
- Created weekly lesson plans that focus on retention and understanding of material
- Communicated to parents and students the steps it would take to reach desired educational goals

### Independent School District 535

Oct 2018 – July 2019

*General Education Paraprofessional* – Rochester, MN

- Assisted lead teacher with classroom management, student assessment, and behavioral interventions
- Successfully took over instruction from lead teacher when appropriate to lead lessons and one-on-one assessments
- Quickly diagnosed and fixed technology issues for teachers at site

### Minnesota Math Corps

July 2013–June 2014, Aug 2017–June 2018

*Math Enrichment Tutor* – Rochester, MN

- Helped struggling students improve their math proficiency through lesson planning and small group instruction
- Created quarterly statistical analyses of student progress using report card and standardized testing data
- Significantly improved standardized outcomes in Mathematics for 25-30 students per academic year

## EDUCATION

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### Georgia Institute of Technology – Atlanta, GA

Aug 2019 – Dec 2020

Master of Science in Analytics, GPA 4.0/4.0

Programming coursework in Python, R, SQL etc with a focus on optimization, statistics, machine learning and their applications

### University of Minnesota – Minneapolis, Minnesota

Sept 2006 – Dec 2011

Bachelor of Science degrees in Mathematics, Economics and Statistics

## UNIVERSITY AND VOLUNTEER PROJECTS

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### Georgia Tech: Practicum with Medxoom – Atlanta, GA

Aug – Dec 2020

- Created an ML-powered cost comparison tool that gives patients more control over their general hospital costs
- Predicted healthcare cost at all US hospitals with 80% accuracy using ensemble of Multinomial Logistic Regression, Random Forest and Gradient Boosting Machine computer models (technology: R, Python, Tableau, Excel, SQL)
- Kept Medxoom up to speed via weekly progress meetings; presented findings to their DS team at end of project

**Georgia Tech: Data and Visual Analytics Group Project** – Atlanta, GA

Jan – May 2020

- Analyzed the global financial system with graph theory and financial economics using proprietary IMF data
- Managed goals/priorities of project group; organized workflow in Gantt chart to ensure deadlines were met
- Co-authored intermediate and final reports to illustrate results; sole author of usability documentation
- Created [website](#) showcasing results using HTML/CSS/js.d3 with SQL/neo4j and ensured its optimal design

**Rochester Public Library** – Rochester, MN (Volunteer)

Jan – May 2018

**Project one**

- Applied NLP techniques such as topic modeling to categorize open-ended survey responses for analysis
- Created report including summary statistics and visualizations for library staff to aid in understanding of results
- Made analytical problem-solving process reproducible so that library staff could create similar analysis on subsequent surveys (technology: R, Python, Excel)

**Project two**

- Performed software review of specific databases and assessed their ability to support the library's new logic model
- Presented cost/benefit analysis to library director and showed how top choice would save the library \$10k/year

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**SKILLS****Programming:** Python, R, MATLAB, SQL**Software:** MS Office, Excel, Tableau, SAS, Github, LaTeX**Machine Learning:**

- Linear, Logistic, Multinomial Logistic and Regularized Regression
- Supervised and Unsupervised Learning Algorithms
- Bayesian Methods: Markov Chain Monte Carlo Simulations
- Topic Modeling / NLP

**Statistics / Mathematics:**

- Design of Experiments, Hypothesis Testing, and associated Theory of Probability and Statistics
- Time Series Methods: ARIMA, Simple and Weighted Moving Average, Exponential Smoothing
- Advanced Calculus, Linear Algebra, Differential Equations, Econometrics, Statistical Process Control

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**LEADERSHIP****Rochester Public Library**

Oct 2017 – May 2019

*Homework Help Tutor (Volunteer)* – Rochester, MN

- Instructed K-12 and college level students and helped them build skills in math, statistics, and science
- Bolstered the English communication skills and proficiency of 100+ ESL students per year

**Triangle Fraternity**

Sept 2008 – May 2010

*Vice President of Membership* – Minneapolis, MN

- Grew chapter membership by implementing new membership events and activities
- Increased 20-member average chapter GPA by one point by implementing accountability partners and a reward system, which resulted in much better job offers and careers for our members

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