JULIA (JULES) TUCHER

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386 Euclid Ave
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EDUCATION

Williams College, B.A. in Computer Science and Mathematics — 2017-2021

Coursework: Algorithms, Software Development, Programming Languages, Applied Real Analysis, Data Analytics, and Regression and Forecasting

Graduated *Cum laude* and with honors in Mathematics

EXPERIENCE

Data Analytics Associate, Mathematica Policy Research — 2021-Present

Clean, wrangle, and perform statistical analysis on complex administrative and survey data sets. Develop interactive dashboards to extract and convey narratives from data. Perform thorough quality assurance and mentor new staff through onboarding process. Awarded Silver Spot Award for excellent project contributions.

Research Assistant, Williams College Math Dept. — 2019-2021

Collaborate with Professor Chad Topaz to create a predictive model for Affirmative Action policies and assess critical mass in undergraduate admissions. Co-author on resulting publication.

Machine Learning Intern, Whooo's Reading — Summer 2019

Train machine learning models for named-entity recognition and quiz question generator within a Natural Language Processing (NLP) algorithm for grading student writing to improve quiz content and grading accuracy.

Research Assistant, Williams Computer Science Dept. — Spring 2019

Develop parser and UI for an imperative programming language environment that combines interactive visual drawing canvas and text editor to better teach children how to code.

Data Science Intern, Kountable — Winter 2019

Develop and conduct statistical analysis of various currency exchange rate forecasting models for more accurate project cost estimates

PAPERS AND PUBLICATIONS

"Affirmative action, critical mass, and a predictive model of undergraduate student body demographics," PLOS ONE, May 2021

"Teacher-student race match in California Public Schools," Senior Honors Thesis in Mathematics, May 2021

LANGUAGES AND SKILLS

R, Python, Stata, SQL, Tableau, Java, C, Swift, F#, Git, TypeScript, HTML/CSS