

# MILES T. SMITH

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## EDUCATION

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**B.A. Mathematics and Economics *with honors and distinction*, Occidental College, 2023**

GPA: 3.8, *Magna Cum Laude*

Honors Thesis: *Normative Policy Analysis within a Poverty Trap Model*

## RESEARCH EXPERIENCE

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Sept. 2022 - Sept. 2023    **Research Assistant in Economics**, Occidental College  
Project: *Testing The Contact Hypothesis in Clerk Employment Discrimination in Appellate Courts*  
Advisor: Dr. Jorgen Harris

May - Aug. 2022            **Undergraduate Research in Economics**, Occidental College  
Project: *The Effect of Loss Aversion on a Poverty Trap Model*  
Advisor: Dr. Brandon Lehr  
Links: [Paper](#)

Jan. - Aug. 2022            **Research Assistant in Applied Mathematics**, Occidental College  
Project: *NSFD Schemes for the Heat Equation Using Unity Approximations*  
Advisor: Dr. Treena Basu

May - Aug. 2021            **Research Experience for Undergraduates in Applied Mathematics**, Oregon State University  
NSF Project: *An Explicit and Analytical Solution to the Stokes Equation on the Half-Space*  
Advisor: Dr. Hoe Woon Kim  
Links: [Working Paper](#)

June - Dec. 2020            **Machine Learning Research Intern**, Air Force Research Laboratory  
Project: *Machine Learning for Multi-Domain Operations*  
Advisor: Dr. John Meyers

Sept. 2019 - May 2020      **Psychology Research Assistant**, Occidental College  
Project: *Preventative Health Care Disparities in Rising Adults*  
Advisors: Dr. Patricia Cabral and Dr. Andrea Hopmeyer

## OTHER WORK EXPERIENCE

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June 2023 - *Present*        **Research Assistant**, Federal Reserve Board of Governors

Aug. 2021 - May 2023      **Lead Math Department Tutor**, Occidental College

Jan. 2021 - May 2022      **Math and Physics Courses TA and Grader**, Occidental College  
Courses: Calculus II (MATH 120), Math Methods (PHYS 310)

Sept. 2019 - Aug. 2022    **Student Representative on Board of Trustees**, Occidental College  
*Academic Affairs and Technology Committee*

May 2018 - Aug. 2019      **Python Summer Programming Camp Lead**, Oregon State University

Oct. 2017 - Aug. 2019      **Front-End Web Development Intern**, Proworks, Inc.

## CONFERENCE PRESENTATIONS AND TALKS

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### Normative Policy Analysis within A Poverty Trap Model

July 2023 [Federal Reserve Board, Brown Bag Seminar](#)

May 2023 Occidental College, Economics Dept. Honors Presentation

### NSFD Schemes for the Heat Equation Using Unity Approximations

June 2022 [NREUP Research Presentation](#)

April 2022 [Student-Faculty Occidental Research Presentations](#)

### An Explicit and Analytical Solution to the Stokes Equation on the Half-Space

April 2022 National Conference for Undergraduate Research (NCUR)

March 2022 Occidental Math Department Research Seminar Series

Nov. 2021 [SUMS at James Madison University](#)

Nov. 2021 Southern California Mathematics Association of America (SoCal MAA)

Oct. 2021 Southern California Conferences for Undergraduate Research (SCCUR)

Sept. 2021 Young Mathematicians Conference at Ohio State University (YMS)

## AWARDS AND HONORS

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Spring 2023 Benedict Freedman Senior Prize in Mathematics (*Awarded for Highest Academic Achievement*)  
Honors and Distinction in Economics

Fall 2022 W. M. Keck Foundation Scholarship

Fall 2021 Dr. B.F. Stelter Memorial Scholarship

Fall 2020 Harry and Grace Steele Foundation Scholarship

Fall 2019 - Spring 2023 Dean's List

## SKILLS AND ACTIVITIES

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**Programming:** Python, R, MatLab, Stata, Git;  
Data analysis, Web scraping, Machine learning models

**Activities:** Diversity, Equity, and Inclusion Leadership, Federal Reserve Board  
Math Mentoring Network (Creator and Lead Mentor), Occidental College

## RELEVANT COURSEWORK

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### Graduate Coursework

Spring 2024 Stochastic Processes (8273) (*in the PhD Statistics Dept. at GWU*)

### Occidental College

Spring 2023 Honors Thesis in Economics  
Advanced Real Analysis: Metric Spaces and Lebesgue's Measure Theory  
Advanced PDEs: Stokes, Heat, and Wave Equations

Fall 2022 Intermediate Macroeconomics  
Applied Econometrics  
Health Economics  
Urban Economics

Spring 2022 Behavioral Economics  
Intermediate Microeconomics  
Math Junior Colloquium

Fall 2021	Real Analysis Game Theory
Spring 2021	Partial Differential Equations Numerical Analysis Special Topics in Math Modeling
Fall 2020	Ordinary Differential Equations Probability Directed Research in Psychology
Spring 2020	Linear Algebra Multivariable Calculus
Fall 2019	Discrete Math Directed Research in Psychology