

MILES T. SMITH

Updated: November 2025
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EDUCATION

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

GPA: 3.8, *Magna Cum Laude*

Honors Thesis: [Updated Version \(previous\)](#)

RESEARCH EXPERIENCE

Aug. 2022 - Aug. 2023	Research Assistant in Economics , Occidental College Project: <i>Diverse Hiring in a Homogeneous Hiring Pool</i> Advisor: Prof. Jorgen Harris Working Paper (with Prof. Eleonora Patacchini, Cornell)
May - Aug. 2022	Undergraduate Research in Economics , Occidental College Project: <i>The Effect of Loss Aversion on a Poverty Trap Model</i> Advisor: Prof. Brandon Lehr Paper
Jan. - Aug. 2022	Research Assistant in Applied Mathematics , Occidental College Project: <i>NSFD Schemes for the Heat Equation Using Unity Approximations</i> Advisor: Prof. Treena Basu
May - Aug. 2021	Research Experience for Undergraduates in Applied Mathematics , Oregon State University NSF Project: <i>An Explicit and Analytical Solution to the Stokes Equation on the Half-Space</i> Advisor: Prof. Hoe Woon Kim Working Paper
June - Dec. 2020	Machine Learning Research Intern , Air Force Research Laboratory Project: <i>Machine Learning for Multi-Domain Operations</i> Advisor: Dr. John Meyers
Sept. 2019 - May 2021	Psychology Research Assistant , Occidental College Project: <i>Preventative Health Care Disparities in Rising Adults</i> Advisors: Prof. Patricia Cabral and Prof. Andrea Hopmeyer

OTHER WORK EXPERIENCE

June 2024 - Present	Sr. Research Assistant , Federal Reserve Board of Governors Federal Reserve Payments Study Publications
June 2023 - June 2024	Research Assistant , Federal Reserve Board of Governors
Aug. 2021 - May 2023	Lead (only) 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 <i>Academic Affairs and Technology Committee</i>
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

Two-sided Market Concentration and Household Welfare ([Proposal](#))

- June 2025 Federal Reserve Board, NSF Seminar
Sept. 2024 [Federal Reserve Board, Brown Bag Seminar](#)

Persistent Poverty and Inequality ([Current Paper](#))

- Oct. 2025 [Federal Reserve Board, Brown Bag Seminar](#) (Loss Aversion and Poverty)
July 2023 [Federal Reserve Board, Brown Bag Seminar](#) (Honors Thesis)
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

- April 2025 [NSF Graduate Research Fellowship](#) (*declined*)
Project: *Effects Of Minimum Wage Policy In The Presence Of Growing Dual-Market Power*
Spring 2023 Benedict Freedman Senior Prize in Mathematics (*awarded for highest academic achievement*),
Honors and Distinction in Economics
Summer 2022 Undergraduate Research Fellowship, Occidental College
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

- Programming:** Python, R, MatLab, Stata, Git;
Data analysis, Web scraping, Machine learning models
- Activities:** Volunteer Site leader, [Open Table](#) (2025-Present)
Inequality Seminar Series, Federal Reserve Board (2023-2025)
Diversity, Equity, and Inclusion Leadership, Federal Reserve Board (2023-2025)
Volunteer, [LA Mission](#) (2022-2023)
Math Mentoring Network (Creator and Lead Mentor), Occidental College (2021-2023)
Volunteer Web Developer, Center Against Rape and Domestic Violence ([CARDV](#)) (2015-2019)