John M. Dedyo

Curriculum Vitae updated November 2025

Personal

Email: john.dedyo@yale.edu
Website: jdedyo.github.io Location: New Haven, CT

Education

B.S., Yale University, expected 2026, Economics & Applied Mathematics (double major)

- Phi Beta Kappa, First Election
- Thesis in Applied Mathematics: "TBD", supervised by Nicholas Barberis

Albertus Magnus High School, 2022

- Valedictorian

Research Interests

Behavioral Finance, Macroeconomics, Financial Economics, Household Finance, Labor Economics, Economic Theory

Skills

Python, SQL, UNIX, MATLAB, High Performance Computing, LLMs, GitHub, Excel, R, LaTeX.

Experience

Ellington Management Group, New York, New York (Summer 2025)

Research Intern: Multi-strategy structured credit hedge fund with $15+B AUM.

Yale Department of Economics, New Haven, CT (Fall 2023–present)

Research Assistant (Spring 2025–present): Continuation of prior work on retirement saving behavior, in preparation for multiple publications.

Tobin Undergraduate Research Assistant (Fall 2023–Spring 2025): Continuation of prior work on retirement saving behavior in collaboration with MIT Sloan.

Herb Scarf Research Assistant (Summer 2024): Fully-funded research on retirement wealth inequality. Findings will be used to advise US corporations on how to optimally allocate their retirement savings matching funds.

Yale Department of Applied Physics, New Haven, CT (Summer 2023–Fall 2024)

Researcher (Summer 2023–Fall 2025) Independent special project in the Yale Energy Sciences Institute's Miller Group to design an all-angle color sorting optical device for application in photovoltaics.

Dean's Fellow (Summer 2024): Awarded the Yale College Dean's Research Fellowship in the Sciences, fully-funding original research leveraging a novel optimization framework for photonic design, with implications for the design of optical computing devices.

Independent Research (Fall 2023): "Inverse Design of a Dispersive Graded-Index Light Splitter for High-Efficiency Photovoltaics."

Academic Service

Yale Department of Applied & Computational Mathematics

Departmental Student Advisory Committee (Fall 2024–present)

STEM Navigator (Fall 2024–Spring 2025)

Yale Poorvu Center for Teaching & Learning

Course-Based Peer Tutoring Oversight Committee (Fall 2024–present)

Mathematics Peer Tutor: Ordinary Differential Equations (Fall 2024); Integral Calculus (Fall 2023)

Engineering & Applied Science Peer Tutor: Computing for Engineers and Scientists (Spring 2024)

Undergraduate Teaching Reviewer (Spring 2023)

Community Service

Yale Undergraduate Prison Project, New Haven, CT

Pardon Project Director (Spring 2025–present)

Pardon Seminar Leader (Summer 2024–present)

Connecting Through Literacy, Branford, CT

Youth Mentor (Spring 2023–present)

Awards and Funding

Yale University:

- Yale College Dean's Research Fellowship in Sciences (Summer 2024)
- Herb Scarf Research Assistantship (Summer 2024)
- Tobin Undergraduate Research Assistantship (Fall 2023–Spring 2024)

Albertus Magnus High School:

- National Merit Finalist
- National Hispanic Scholar
- AP Scholar with Distinction
- National Honor Society
- Coolidge Senator Awardee, Calvin Coolidge Presidential Foundation (2021)
- Summer Leaders Experience, United States Military Academy (2021)
- Science Honors Program, Columbia University (2020–2022)

Working Papers and Projects

"Policy Brief", with Cormac O'Dea.

"TBD", with Nicholas Barberis.

Presentations and Publications

"Retirement Wealth Inequality: Why Don't Workers Claim Their Retirement Benefits?", with Cormac O'Dea, Lawrence D.W. Schmidt, and Taha Choukhmane, **Scarf Conference** (July 2024)

"Inverse Design of a Dispersive Graded-Index Device for Photovoltaics", with Owen D. Miller, **Yale Physics Undergraduate Research Symposium** (December 2023)

"NextGen Voices: Historic Introductions", **Science** (October 2023)

"Ray-Optics Design of a Dispersive Graded-Index Device for Photovoltaics", with Owen D. Miller, **Energy Sciences Institute Retreat** (September 2023)