

Aiden Sparks

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EDUCATION

Indiana University, College of Arts and Sciences, Bloomington, IN, May 2026 Bachelor of Science in Economics and Quantitative Methods; GPA: 3.62

Minors in Mathematics and Statistics

Relevant Coursework: Econometric Theory and Practice, Advanced Econometrics: AI Trading, Computational Methods in Macro, Honors Intermediate Macro Theory, Intermediate Micro Theory, Linear Algebra, Calculus 4, Differential Equations, Probability Theory, Statistical Analysis for Econ

GRANTS AND HONORS

Provost Scholarship, Indiana University, 2022-2026

Esther L. Kinsley Award Scholarship, Indiana University Foundation, 2024-2026

RESEARCH AND TEACHING INTERESTS

Financial Econometrics; Applied Econometrics; Energy Economics; Climate Economics

WORK EXPERIENCE

Economics Machine Learning Lab

EML Fellow, May 2026 – Present

Build and maintain textual-data pipelines for the lab's energy-forecasting models. Established the project's pytest test suite including data ingestion and standardization.

Indiana University Economics Department

Undergraduate Intern, Fall 2024

Held weekly review sessions for undergraduate students in microeconomics. Proctored exams and graded weekly assignments.

Parker Real Estate Management

Bookkeeping Manager's Assistant, June 2018 – August 2022

Filed invoices and tax documents for real estate owners as well as providing office-wide technical support. Assisted in maintaining documentation using QuickBooks and Microsoft Excel.

RESEARCH EXPERIENCE

Indiana University, Economics Department, Bloomington, IN

Student, Fall 2025

Instructor: Professor Yoosoon Chang

Course: Advanced Undergraduate Seminar in Econometrics – AI Trading

Description: Constructed a fully functional quantitative trading model using econometrics and machine learning. It was programmed in python, and the model was back tested over the last five years yielding high annual returns.

Indiana University, Economics Department, Bloomington, IN

Student, Spring 2025

Instructor: Professor Rupal Kamdar

Course: Computational Methods in Macroeconomics

Description: Researched the effects of June 2018 tariffs on Chinese imports using python for data analysis, focusing on their impacts on consumption expenditure and inflation in the US and China.

Indiana University, Economics Department, Bloomington, IN

Independent Researcher, Fall 2024

Advisor: Professor Dean Lueck

Conducted independent research on the economics of governance focusing on the history and development of governance for wildlife, with a focus on beaver pelts in the fur trade.

MEMBERSHIPS

Quantitative Finance Society (2025 – 2026)

LANGUAGES

Native English Speaker; Reading and basic speaking competence in French

SKILLS

Data analysis and visualization in Python; Basic statistical analysis in Stata and Excel; Strong mathematics background.

CONFERENCES ATTENDED

"Bridging Academic Research and Industry Practice." Economic Machine Learning Lab Quant Conference, October 2025.

"The Importance of Infrastructure." Panel Discussion at the Economic Development Academy, June 2024.
Panel speakers include Heather Ennis, Rick Calinski, Anthony Sindone, and Micah Pollak

"Developing a Robust Regional Workforce." Panel Discussion at the Economic Development Academy, June 2024.
Panel speakers include Seth Spencer, Anthony Sindone, and Micah Pollak

"The Competitive Advantage of a Region." Presentation given at the Economic Development Academy, June 2024.
Presented by Professors Anthony Sindone and Micah Pollak

PRESENTATIONS

"Macroeconomic and Technical Factors Trading Strategy." Project presented in Advanced Econometrics. Indiana University, November 2025.

"The Economics of Wildlife Governance: A Case Study of Beavers in North America." Paper presented to Independent Research Project Group. Indiana University, December 2024.

