Samuel E. Ross

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EDUCATION

- **Haverford College** — Haverford, PA
  B.S. in Mathematics & Economics (In Progress); GPA: 3.93; Major GPA: 4.0 — *Aug 2021 – May 2025*
  - **Selected Coursework**: Analytic Number Theory, Analytical Methods for Economics, Intermediate Macroeconomic Analysis, Linear Algebra, Real Analysis (Ongoing), Statistical Methods and their Applications
  - **Athletics**: Varsity Cricket Team
- **Briar Woods High School: Academy of Science Magnet Program** — Ashburn, VA
  Diploma & AoS Certificate of Completion for Cellular and Molecular Biology; GPA: 4.49 — *Aug 2017 – Jun 2021*

EXPERIENCE

- **Haverford College, Department of Economics** — Haverford, PA
  Research Assistant for Professor Carola Binder — *Mar 2022 – Present*
  - **Magazine Article**: Cooperated with my supervisor and a co-worker to read and formulate a critique of the Bank of England's 2022 economics explainer *Can't we just print more money?*, and independently wrote the first and penultimate drafts of our review, which was published in *Central Banking* magazine.
  - **Price Controls Book**: Wrote passages in a forthcoming book about historical price controls by using contemporary sources and academic research that I located, read, and synthesized into succinct reports.
  - **NGDP Expectations Study**: Verified results for my supervisor's project on consumer NGDP expectations by running OLS regressions and computing rolling correlations in Stata and Excel, using survey data that I sourced from the Michigan Surveys of Consumers database.
  - **Central Bank Communications Project**: Collaboratively evaluated speeches by Federal Reserve leaders to identify biased or partisan language for a study using natural language processing to analyze central bank communications.

ACTIVITIES

- **Haverford Economics Research Club** — Haverford, PA
  Co-Head & Lead Researcher — *Oct 2021 – Present*
  - **Covid Reopening Research Project**: Head a group of students extending an NBER Working Paper by Raj Chetty. Our work evaluated the impacts of varied Covid reopening policies on macro indicators using panel OLS regressions and synthetic controls, self-teaching Stata, R, GitHub, and Excel in the process. We are scheduled to present this research at a University of Goettingen conference in Nov 2022 and expect to publish thereafter.
  - **Database Creation**: Built a web scraper in Python that crawled archived *New York Times* pages to collect data on Covid reopenings (e.g., date, state, and business type) and organize them into a database, used in the above project.
  - **Academic Community Building**: Plan, promote, and host public talks for alumni in economics, public policy, or central banking to present academic research, and lead journal readings to examine developments in economic literature.
  - **Career Development**: Provide professional development activities for students curious about research in economics and finance, including tutoring members in R, Stata, and Excel, and mentoring them in networking and career planning.
- **Haverford Problem Solving Group (Math Club)** — Haverford, PA
  Founder & Co-Head — *Aug 2021 – Present*
  - **National Competition Performance**: Facilitated Haverford's record-breaking top-20 placement in the 2021 Putnam Competition by organizing, advertising, and leading weekly competitive mathematics training events for students.
  - **Accessible Pedagogy**: Foster a diverse and inclusive mathematical community by writing themed problem sets for club meetings in LaTeX, drawing questions from varying subdisciplines and a wide range of difficulties.
  - **Responsible Financials**: Manage a club budget used for event registration, travel, and supplies by maintaining expense records and communicating regularly with the math chair to ensure spending conforms with department guidelines.
- **Haverford Office of Access and Disability Services** — Haverford, PA
  ADS Notetaker for MATH H215: Linear Algebra — *Aug 2021 – Dec 2021*
  - **Real-time Academic Writing**: Typeset real-time notes in LaTeX for disabled students in Haverford's linear algebra course, translating abstract mathematical and statistical concepts into concise reports with custom graphics.

PUBLICATIONS

- "Book notes: Can't we just print more money?, by Rupal Patel and Jack Meaning" (2022, with Carola Binder and Devansh Goyal), *Central Banking*.

SKILLS SUMMARY

- **Programming Languages**: HTML, Java, LaTeX, Mathematica, Python, R, Stata, SQL, Unix scripting (viz., Bash, Zsh)
- **Tools**: Google Workspace, Git, Microsoft Office Suite (viz., Excel, Powerpoint, Word), Tableau, Zotero
- **Languages**: English (Native), French (Working Proficiency)
- **Citizenship**: United States