

# Elliot S. Lee

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## **B.E. Operations Research and Financial Engineering – Princeton University**

*Minors:* Applied & Computational Mathematics, Quantitative Economics, Global Health & Health Policy, Bioengineering

*Relevant Courses:* ORFE sequence (Calc I-III, Lin. Algebra, Optimization, Probability & Stochastic Systems, Differential Equations, Networks), Economics Math-Track Sequence (including Financial Mathematics), Pre-Medical Sequence (Biology, General Chemistry, Organic Chemistry, Biochemistry, Neuroscience), Global Health Sequence

## **Experience:**

Researcher (antimicrobial supply chain development, economic and epidemiological modeling of VMMC health data)

African Comprehensive HIV/AIDS Partnership (Jun - Aug 2025) [Gaborone, Botswana]

*Project presentation to government officials in the Central Medical Stores and the Ministry of Health.*

*Developing antimicrobial supply chain models for Botswana's Ministry of Health using OSRM-based distance matrices and economic/epidemiological data.*

Research Assistant to Samya Aboutajdine (work on housing disaster resilience)

Princeton Economics Department (Jun - Aug 2025) [Princeton, US]

*Examined housing disaster resilience by analyzing 10M+ building permits with FEMA risk data and regressing local resilience investments on FEMA grant flows.*

Research Assistant to Dr. Janet Currie (work on adolescent-oriented social program data collection and visualization)

Princeton Economics Department (Jan - Aug 2024) [Princeton, US]

*Cleaned and visualized adolescent social program data to support presentation on program effectiveness.*

Research Assistant to Dr. Sylvain Chassang (weight adjustment for French transportation)

Princeton Economics Department (Oct - Dec 2024) [Princeton, US]

*Developed statistical weight adjustments for French transportation survey data to improve representativeness in empirical analyses.*

Research Assistant to Dr. Giridara Gopal & Dr. Ramanan Laxminarayan (vaccination program cost-effectiveness)

One Health Trust (Jun - Aug 2023) [Bengaluru, India]

*Modeled vaccination program cost-effectiveness at One Health Trust by implementing Markov chain simulations under Drs. Gopal and Laxminarayan.*

Biostatistics Researcher (under supervision of Dr. Olivia Harringmeyer and Dr. John Storey)

Lewis-Sigler Center for Integrative Genomics (Oct 2024 -) [Princeton, US]

*Using SLiM to model fixed genetic mutation effects in populations under migration conditions. Working on research paper modeling chromosomal inversions under three-loci continent-island extension to Burger & Akerman (2003).*

Teaching Assistant (PHY103: General Physics I)

Princeton Physics Department (Sep - Dec 2024) [Princeton, US]

*Hosted weekly study sessions.*

**Significant extracurricular activities:**

Hopewell (Station 152) EMT

*Provided pre-hospital emergency care as a certified EMT on 911 calls (11 h/wk night shift).*

GWUH quality observer

*Monitored patient safety and care quality compliance in a major academic hospital.*

Team Rubicon

*Supported disaster response operations in Florida through logistics, community relief, muckouts, public facility cleaning, and scene assessments.*

American Whig-Cliosophic Society Dir. of Program Emeritus

*Led 11 programming events for the nation's oldest collegiate debating society, including a new "Health x Public Policy" speaker series.*

Residential College Advisor (RCA) & Community Living Advisor (CLA)

*Mentored students and fostered community engagement in residential colleges.*

Jill's House / Second Story volunteer

*Assisted children with disabilities and supported youth in transitional housing programs.*

**Awards:**

Health Scholar, Center for Health and Wellbeing, Princeton University - 2025

Federal Reserve Challenge, 1st Place, representing Princeton University (Specialization: Labor) - 2024

National Merit Scholarship Program (Leidos) - 2022

PACE National Quiz Bowl Championship, 1st Place - 2021

National History Bowl, 2nd Place - 2021

Virginia History Bee Champion - 2021

**Coding and Word Processing:**

R (fluent), Python (fluent), LaTeX (fluent), STATA (fluent), HTML, CSS, MATLAB, Java.