

# Enzo Bergamo

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## EDUCATION

### University of Pennsylvania

*Master of Science in Engineering (M.S.E.) – Systems Science & Engineering*  
*Accelerated Master's Program: B.S.E. + M.S.E. four-year program*

May 2023  
Philadelphia, PA

### University of Pennsylvania

*Bachelor of Science in Engineering (B.S.E.) – Systems Science & Engineering*  
*Minor in Computer and Information Science, Mathematics*

May 2023  
Philadelphia, PA

### Colegio Dante Alighieri (High School)

*Honors: top 1% of graduating class*

December 2018  
São Paulo, Brazil

## SKILLS

**Technical:** Java, Python (NumPy, Pandas, Scikit-Learn, Pytorch), SQL, Git, R, Tableau, OCaml (functional programming, basic), LaTeX, Microsoft Office

**Languages:** English (fluent, native), Portuguese (fluent, native), Spanish (proficient), Italian (basic)

## RELEVANT COURSEWORK

CIS 545: Big Data Analytics, OIDD 245: Digital Economy Analytics, MATH 313: Computational Linear Algebra, CIS 121: Data Structures & Algorithms, CIS 120: Programming Languages and Techniques II, ESE 400: Engineering Economics, ESE 204: Decision Models, CIS 160: Mathematics for Computer Science

## PROFESSIONAL EXPERIENCE

### Research Assistant

*Alelab, University of Pennsylvania*

June 2021 – Present

Philadelphia, PA

- Expanded research on autonomous robot swarms making use of machine learning techniques (reinforcement learning, graph neural networks) with funding by Intel and the Army Research Laboratory
- Developed extensive simulations of multiple scenarios (communication failure, collision) using Pytorch and in-house software

### Program Instructor

*Redefine*

June 2021 – Present

Remote

- Prepared content and worked as an instructor for the Summer 2021 cohort of Redefine, a summer computer science program for underserved communities with the goal of increasing diversity in the computer science workforce

### CIS 110 Teaching Assistant

*University of Pennsylvania*

January 2020 – Present

Philadelphia, PA

- Conducted office hours (~ 100h/semester) for over 200 students in the introductory computer science class at Penn
- Led special Sunday Review Sessions to provide assistance for students that required additional help with the class content

### Summer Intern

*VTEX*

July 2020 – August 2020

Remote

- Devised an overhaul of the customer support experience to increase ticket deflection. Simulations modeled a decrease of 30% in the number of tickets opened while increasing the interactions between users and the company's Knowledge Base

## LEADERSHIP & OTHER EXPERIENCE

### NCAA Division I Fencing Student-Athlete

September 2019 – Present

- Varsity athlete at the University of Pennsylvania Men's Saber Squad
- Participates on an average of three hours of practice per day in addition to demanding Engineering curriculum
- Previous results: Brazil National Team member, 2019 Pan-Am Games participation, Brazil's national junior champion in 2018, individual 2nd place at the 2019 South American Fencing Championship

### Common Cents Operations Chair

September 2020 – Present

- Supervises all operations (planning, logistics) at Common Cents, an intercollegiate organization focused on financial literacy for both undergraduate and high school students with over 1.3 thousand members and currently present at seven higher education institutions (including Yale University, University of Pennsylvania, and Johns Hopkins University)
- Wrote Python scripts and used BI tools (Tableau) to gather information about the performance of virtual events

### Penn Engineering Orientation Peer Advisor

May 2020 – Present

- Responsible for helping first-year students in their transition to Penn by sharing strategies for academic success and information about campus resources

### Penn World Scholar

September 2019 – Present

- Exclusive program (10-15 students/year) organized by the University of Pennsylvania which includes an extensive financial package (~ \$50k/year)
- Developed leadership and interpersonal skills by engaging with members from diverse backgrounds