Emily Oh

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Education

University of Pennsylvania, Philadelphia, PA   May 2025 (Expected)
      Accelerated Master's Program, Systems Engineering
      2024 Engineering Entrepreneurship Fellows Program: 1 of 12 students selected for technology
      venture leadership program
Haverford College, Haverford, PA   May 2024 (Expected)
      Major: Mathematics, Minor: Art History
      Senior Thesis: Physiologically-Based Pharmacokinetic Modeling for Chemical Risk Assessment
      (in partnership with the U.S. EPA)

Professional Experience

L3 Harris Technologies, *Systems Engineering Intern* | Clifton, NJ   May-August 2023
- Devised a Python SimPy simulation model to analyze and forecast the probability of failures in the manufacturing process of military equipment for the U.S. Department of Defense and industry

Haverford College, Sports Information Assistant   December 2022-2023
- Collaborated with the Director of Sports Information to call live statistics for varsity basketball and lacrosse

Haworth Country Club, *Assistant Tennis Professional* | Haworth, NJ   May 2022-August 2022
- Instructed children and adults in private and group lessons

Haverford College, Summer Math Pedagogy Assistant   May 2021-August 2021
- Curated 15 how-to tech tutorials, edited 30 lecture videos, programmed 3 mathematical tools to solve discrete dynamical systems (DDS) problems

Projects

University of Pennsylvania- *Human Systems Engineering Project*   August-December 2022
- Conducted operational analysis and proposed a system design from a human-systems engineering perspective to create guidelines to decrease cases of unplanned extubations in the NICU at CHOP

Haverford Colleg*e- Scientific Computing Optimization Project*   April 2021
- Developed MATLAB minimization algorithms (Steepest Descent, BFGS) for locating affordable housing while considering financial constraints and proximity to public transportation

Activities and Honors

Haverford College Women's Varsity Tenni*s- Captain*   Fall 2020-Present
      ITA Scholar-Athlete, Centennial Conference Academic Honor Roll, All-Sportsmanship Team &
      Player of the Week
SAAC (Student-Athlete Advisory Committee)- *Center for Career Advising Liaison*   Fall 2021-Present
Women in STEM- *President*   Fall 2020-Spring 2023
Special Olympics*- Volunteer*   Fall 2021-Fall 2023

Skills

Coding languages: Java, R, Python
Software: MATLAB, Mathematica, Latex, Agile, Jira, Confluence