Ashley Cousin

Palm Beach Gardens, FL 33410 | 973-908-3870 | acousin@seas.upenn.edu

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science — **Philadelphia, PA**
M.S.E in Chemical and Biomolecular Engineering | Expected Graduation December 2024
B.S.E in Chemical and Biomolecular Engineering | Concentration in Biotechnology and Pharmaceutics
Mandarin Chinese Language Certificate | Statistics Minor | Expected Graduation May 2024
Cumulative GPA: 3.99/4.00

The Benjamin School | Class of 2020 — **Palm Beach Gardens, FL**
Salutatorian | National Merit Scholar | Cum Laude Society | ACT: 36 | SAT Subject Tests: Math II 800, Chemistry 800
Nominated for Palm Beach Post Pathfinder in Mathematics | National AP Scholar

WORK EXPERIENCE

WorldQuant: *Intern* — **New York, NY**
- Utilized statistical analysis, Python, SQL, internal simulators to analyze and effectively communicate internal data for projects involving cost allocation and model attribution — **May – July 2023**

Zebra Technologies: *Supplies R&D Intern (RFID and Environmental Sensing Products)* — **Morris Plains, NJ**
- Worked on improving current R&D phase products; wrote and filed 3 invention disclosures for these solutions — ***May - August 2022***
- Presented project updates at 3 meetings with 40+ experts from R&D, product management, and supplies division

University of Pennsylvania: *Teaching Assistant and Grader* — **Philadelphia, PA**
- Graded coursework, led office hours, and answered questions for 50 undergraduate and graduate students in Engineering Economics (ESE 4000/5400) — **August 2022 - Present**
- Held office hours and worked with over 140 students to help them understand course material for Business, Economics, and Public Policy (BEPP) 284 Game Theory for Business and Life — ***September - December 2021***

University of Pennsylvania Lim Lab: *Undergraduate Research Assistant* — **Philadelphia, PA**
Independent Study — ***September - December 2021***
- Engineered a method to turn genes on and off using light to later study transcription factors and development (*Optogenetic-Mediated Gene Control in S2 Cells)*

Selected for the Penn Undergraduate Research and Mentorship program — ***May - August 2021***
- Created a research poster, accompanying video, and a 500-word website post to summarize research
- Presented at the Center for Undergraduate Research and Fellowships 2021 Research Expo and lab meetings (12 people)

Max Planck Florida Institute for Neuroscience — **Jupiter, FL**
- *Part Time Research Assistant*: Systematically tested a new, more efficient, electroporation device — ***January - March 2020***
- *Research Intern*: Researched the effects of the PTEN gene in autism. Presented findings to an audience of over 50 researchers and Brain Trust donors at Max Planck; video posted on YouTube (12 minutes) — ***June - July 2019***

LEADERSHIP AND ACTIVITIES

Tau Beta Pi Engineering Honor Society: *Co-President; Recording Secretary* — **Philadelphia, PA**
- Led Planning for Spring 2023 Initiation — **November 2022 - present**
- Organized events for club members (75 people) and greater engineering community

Society of Women Engineers: *Community Development Committee* — **Philadelphia, PA**
- Worked on a 15-person team to discuss, plan, and develop events for women in Engineering — **March 2022 - present**

Center for Undergraduate Research and Fellowships (CURF): *Research Peer Advisor* — **Philadelphia, PA**
- Provided mentorship to 6 freshman and sophomore students each year — **October 2021 - present**
- Guided mentees in discovering suitable clubs, research labs, and funding opportunities
- Assisted with campus wide information events throughout the year

Skills and Interests

Skills: MATLAB| Python| SQL| Conversational Mandarin| Microsoft Excel, Word, and PowerPoint **Interests:** Tennis| Golf| Wordle