

HELLMAN ZHAO

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EDUCATION

Swarthmore College

Expected Spring 2023

Bachelor of Arts in Computer Science, Minor in Engineering & Statistics

Swarthmore, PA

GPA: 3.96/4.00

Honors: Tarble Research Fellowship Award, ITA Academic Scholar Award, Centennial Academic Honor Roll

Relevant Coursework: [Data Structures and Algorithms, Algorithms Analysis, Computer Systems, Digital and Embedded Systems, Numerical Methods for Engineering Applications, Statistical Methods II, Logic]

WORK EXPERIENCE

FinePrint Data

June 2021 – August 2021

Software Engineer Intern

Philadelphia, PA

- Design algorithms and predictive models collaboratively for extracting Congress financial disclosures using Python
- Assess effectiveness and accuracy of various APIs for the retrieval of legislative data from the House and Senate
- Clean and aggregate large data sets to identify trends and reach meaningful conclusions about political investments
- Web scrape and combine information from third party sources to fill in missing information in company data library
- Coordinate with the data journalism team on research and data statistics for upcoming reports and press releases

Swarthmore College Mathematics & Statistics Department

June 2021 – August 2021

Research Assistant

Swarthmore, PA

- Work with Professor Steve Wang over the summer to estimate the difference in extinction times of taxonomic groups
- Investigate methods of melding one-sample confidence procedures to obtain inferences for multiple sets of fossils
- Utilize statistical programming language R for all algorithm modifications and simulation testing of our models
- Presented final research findings and results at the annual Math and Statistics Department summer showcase

Swarthmore College Athletics Department

October 2020 – June 2021

Athletic Communications Assistant

Swarthmore, PA

- Update and manage outreach programs to assist in key operational initiatives related to alumni events and campaigns
- Engage in historical research and data entry to assemble rosters for past Swarthmore College's varsity athletic programs
- Assist in the promotion of Swarthmore College athletics through a combination of both photo and video editing

LEADERSHIP EXPERIENCE

Swarthmore College Varsity Men's Tennis

September 2019 – Present

Captain & Athletics for Diversity and Inclusion Representative

Swarthmore, PA

- Led the team to achieve a top 30 national ranking and organize captain practices and team-building activities
- Dedicate 25 hours per week to practice and competition in the NCAA and Centennial Conference
- Elected representative of an initiative to take on issues of race, gender, and other identities within our athletic programs

Swarthmore College Computer Science Department

February 2021 – Present

Student Mentor & Teaching Assistant

Swarthmore, PA

- Mentor underclassmen by offering personal experiences and advice on how to navigate and succeed in computer science
- Run weekly clinics and manage class discussions to facilitate understanding of concepts related to course material

Swarthmore College Launchdeck

September 2020 – Present

Member

Swarthmore, PA

- Student-run technology and entrepreneurship club that meets with entrepreneurs to discuss start-ups and market trends
- Co-host weekly workshops and lead design teams to build several IOS and Android applications using Swift and Xcode

SKILLS AND INTERESTS

Programming Languages: Python, C++, C, Java, Swift, R, HTML/CSS, LaTeX

Software: AWS, Docker, Github, VS Code, Atom, RStudio, Xcode, Microsoft Office (Word, Excel, PPT)

Languages: English (Fluent), Mandarin (Fluent), French (Proficient)

Interests: ATP Tennis, NBA, Boxing, Beach Volleyball, Hiking, Chess, Reading, Volunteering