

Yixin Xiao

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EDUCATION

University of Michigan, Ann Arbor

- Major: Computer Science Engineering
- College of Engineering | GPA: 3.94 / 4.00
- Expected Graduation: May 2021
- **Relevant Coursework:** Data Structures and Algorithms, Matrix Algebra, Discrete Mathematics, Underwater Vehicle Design

SKILLS & ABILITIES

Related Computer Skills

- C++, Python, Javascript, HTML, CSS, Fortran, MATLAB, Linux, Github, Excel, Access, SharePoint, Flow

Languages

- Chinese – Native, Spanish – 5 Years/ Conversational

WORK EXPERIENCE

Crowds and Machines Lab

Undergraduate Research Assistant

(September 2018- Present)

- Researches the use of **active learning** to create a **machine learning model that interchanges active learning frameworks** through its training phases, such that it performs consistently better than normal models.
- Worked with **Deep Learning** via **Pytorch** to develop a flexible **Convolutional Neural Network (CNN)** wrapper class in scikit-learn interface, allowing my team to easily switch active learning frameworks and test our hypothesis.
- Implemented text **datasets** such as Twenty Newsgroups as inherited classes of the main Data Loader class, expanding the experimental pipeline as well as allowing my team to evaluate the performance of Active Learning strategies on text data.
- Configured wrapper class to work on both **CPU** and **GPU (CUDA)**, boosting the speed and efficiency of testing.

Posterity Group, LLC

Project Management / IT Intern

(June 2018-August 2018)

- Worked with CEO and COO to address core issues associated with the business hiring process. Applied **Poka Yoke** and other **Six Sigma** concepts, mixed with weekly meetings, to dissect and improve the process.
- Participated in various business meetings discussing **Contract Management**.
 - Previously participated in a solicitation meeting with the Pennsylvania National Guard
- Leveraged **JavaScript** to **automate internal documents** used by the Finance, HR and Project Management departments. Helped in expediting office workflows as well as enhancing error-prevention.
- Used **Microsoft Flow** to **automate common business workflows** that achieve more efficient work cycles. Allowed for more fluid communication between Project Management and HR department, as well as better task prioritization for the Project Management department.

University of Michigan

Undergraduate Research Assistant

(September 2017-April 2018)

- Researched computer driven tools' impact on the efficiency of the domestic manufacturing process and industrial design.
- Utilized Apple's **Augmented Reality (AR)** kit, ARKit, to expedite architectural analysis of furniture placement and optimal space usage. **Developed AR iOS application**, effectively building the foundation for future research.
- Tested the **Arduino's** capability in enabling a previously non-existing **Bluetooth functionality** in daily machinery. Worked specifically with the Adafruit NeoPixel, enabling it to light up remotely.

LEADERSHIP/EXTRACURRICULAR

Tau Beta Pi (Engineering Honor Society)

Professional Development Chair

(January 2019- Present)

- Created networking event involving icebreakers and post-event activities which allowed new members of the society to meet their peer mentors, as well as interact with each other. The success of the event increased our new member retention.
- Proposed idea of TBP-sponsored cover letter workshops after realizing the lack of them on campus. Set up the foundations of workshop, including its structure and resources to contact so that it can be implemented next semester immediately.

Math Honor Society (Mu Alpha Theta)

President

(May 2016-May 2017)

- Created semester tutoring schedules, organized and mapped current and new member's information on Excel spreadsheets. Effectively led to more organized meetings as well as aware members.
- Tutored students in pre-calculus and calculus concepts, boosting their technical skills and self-confidence.