

Jonathan Chuang

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EDUCATION

University of Michigan

Ann Arbor, MI

Expected graduation: April 2022

- GPA: 3.8/4.0
- Major: Computer Science
- Minor: Spanish
- Courses: Data Structures & Algorithms, Computer Organization, Foundations of Computer Science, Computer Science Pragmatics, Discrete Math, Honors Statistics
- Interests: Sports analytics, data science, software development, machine learning
- Clubs: Wolverine Sports Analytics, Hoops for Hope, Varsity Women's Basketball practice team

EXPERIENCE

Wolverine Sports Analytics - Project Lead

Ann Arbor, MI

September 2019 - Present

- Web-scraped HTML files from HerHoopsStats.com using Python to extract college women's basketball statistics and create a database on MySQL Pro
- Manipulated different statistics from the databases to create algorithms to predict the likelihood of Michigan's Women's Basketball Team to beat any opponent
- Congregated with other club members twice a week to code, present recently pushed code on GitHub, and establish next goals

W. K. Kellogg Eye Center - Assistant in Research

Ann Arbor, MI

May 2019 - Present

- Developed a video analysis protocol involving ImageJ and Microsoft Excel to quantify the distal venous outflow system in surgery videos of glaucoma patients
- Analyzed in vivo canaloplasty surgery videos using said analysis protocol to determine a relationship between the density of the outflow system and success rate of surgery
- Assisted in weekly porcine eye experiments by dissecting pig eyes and collecting data from a laser imaging system to calculate stress/strain in the eyes' sclera
- Deliberated in biweekly team meetings to discuss the project's progression and future objectives

Hoops for Hope - Media Chair

Ann Arbor, MI

April 2019 - Present

- Designed Hoops for Hope's website using WordPress to provide (future) members with an overview of the club's projects, goals, and E-Board members
- Hosted biweekly basketball clinics for local Ann Arbor elementary school kids to build stronger connections with the local community and to promote exercise & fun

SKILLS

- Coding (C++, C, HTML, Python, R, Git), OS (Macintosh & PC), Linux, GitHub, GitLab
- Microsoft Office, Google Suite
- Languages (Mandarin - conversational & Spanish - basic)