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Yuxun (Helen) He

Education

Oberlin College and Conservatory

Bachelor of Arts, Bachelor of Music (Expected 05/2020)

- Major: Computer Science, Technology in Music and Related Arts (http://www.timara.oberlin.edu)
- GPA: 3.9
- Course highlights: Intro to Computer Science, Intro to Electroacoustic Music, Data Structures, Systems Programming, Algorithms (expected spring 2017), Multivariable Calculus, Discrete Mathematics, Real-time Techniques, Advanced Electroacoustic Techniques, Performance Technology Workshop, Fundamentals of Linguistics

Skills

- Programming languages: Java, Python, C, Max/msp, bash, C#, C++, HTML/CSS, SuperCollider
- Tools: Eclipse, Logic Pro X, Audacity, Amadeus, Arduino
- Mandarin Chinese, native proficiency

Work Experience

Oberlin College (**http://www.oberlin.edu**, Oberlin, OH)

Teaching Assistant for CS150: Intro to CS (02/2016 –now)

- Graded labs weekly for approximately 100 students in the Intro to CS class.
- Answered questions and helped debug student labs in the lab sessions.
- Hosted the women and trans safe space lab helping hours and the people of color lab helping hours.

Mandarin TA/tutor (09/2015 –now)

- Hosted weekly pronunciation meetings
- Tutored students one-on-one

Note taker for Oberlin College Office of Disabilities (02/2016 –now)

- Took notes daily in classes and uploaded them to Dropbox for other students to review.

One Hour Translation (**http://www.onehourtranslation.com)**

Certified Translator (05/2016-09/2016)

- Identified the differences between machine-translated texts and natural-translated texts to improve Facebook's natural language translation model.

ArticuLab, Carnegie Mellon University

Research Assistant (Expected 01/2017)

- contributed to data analysis and behavioral annotation of interaction data from an educational research study in the design of socially-aware adaptive virtual tutors. Specifically, I extracted acoustic and facial features from 6600 slices of videos data to estimate rapport.

Projects

- **One Note Wonders (aural skills practice software)**: I Designed and developed an aural skills practice software in Max/msp for music theory professors in Oberlin Conservatory (2015)
- **Interval Bear (pitch interval training app)**: I Designed and developed a lightweight pitch interval training software in Max/msp for aural skills students (2015)
- **Solar Wind (real-time sound processing system)**: I Designed and developed a motion sensor system that turns any sounding objects into musical instruments in Max/msp (2016)
    - Video demo: https://youtu.be/VGyRI7ZsNtk
- **Kent Hack Enough Hackathon 2016** (http://khe.io) my team designed and developed a Chrome plug-in as an attempt to alleviate online harassment.
- **2016 ACM ICPC East Central North America Regional Programming Contest** ranked #14 on site.

Organizations

- Member of Oberlin Computer Science Major Committee;
- One of the organizers of Oberlin Programmers of Color;
- One of the founding members of Oberlin Women and Trans Programmers