

# Yirou (Chris) Li

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## EDUCATION

### **University of Waterloo**

*Master of Applied Science* in Systems Design Engineering

Graduation Date: December 2020

GPA: 88.50/100

### **University of Illinois at Urbana-Champaign**

*Bachelor of Science* in Industrial Engineering

Graduation Date: May 2018

GPA: 3.70/4.00

Minor in Electrical Engineering, Computer Science

Certificate of Computational Science Engineering in Industrial Engineering

## RESEARCH EXPERIENCE

### **Novel Data Representation for Virtual Reality (VR) Exergames to Promote Physical Activities in Older Adults Living with Dementia**

Waterloo, ON, CA

*Advisor: Dr. Jennifer Boger*

January 2019 – December 2020

- **Objectives:** Develop and evaluate novel visualization representations using data collected through VR exergames to represent the exercise sessions and player status and reduce exercise therapists' workload
- **Outcomes:**
  - Identified potential metrics that are useful to understand exercise sessions through interviews with 25 exercise professionals
  - Co-developed novel data visualizations with 4 exercise healthcare professionals based on their needs and preference by semi-structured design focus groups
  - Evaluated the proposed data visualizations through mix-method analysis via an online questionnaire (47 respondents) to understand the potential usefulness and identify aspects for further improvements

• **Role:** Graduate Research Student

### **Optimize Electronic Health Record (EHR) System for Grand River Hospital**

Waterloo, ON, CA

*Advisor: Dr. Siby Samuel*

March 2019 – June 2019

- **Objectives:** Evaluate the existing EHR system to identify aspects of improvements and provide suggestions for training if necessary
- **Outcomes:**
  - Conducted literature review on EHR system use, design framework, and evaluation criteria
  - Interviewed healthcare professionals to understand EHR system in comparable healthcare settings
- **Role:** Graduate Research Assistant

## PROFESSIONAL EXPERIENCE

### **Wolfram Research, Inc.**

Champaign, IL, US

*User Experience Consultant*

June 2018 - Present

- Construct design prototypes to provide UX solutions/recommendations about existing issues or upcoming features in Wolfram Products across different platforms (desktop, web, mobile)
- Conduct user testing and user research to understand user expectations for designed feature to improve the usability of the products
- Arrange weekly meetings with mentors, design team, and development team to clarify usability issues and update prototypes
- Present wireframes on development decision meetings to deliver design recommendations
- Perform necessary user testing and report issues discovered in the products

### **University of Illinois at Urbana-Champaign**

Urbana, IL, US

*NetMath Mentor*

May 2016 - May 2018

- Contribute to course innovation based on students' performance
- Provide detailed suggestions on material arrangement and contents to be tested on.

- Mentor students through weekly contact and online discussion forum; recommend schedule planning to make sure workload is appropriate for students every week
- Grade students' assignments and guide students to the right approach using Mathematica when they need help by asking relevant questions
- Participate in weekly training and discussions on mentor's discussion forum to interact with other mentors to enhance professional skills

### **University of Illinois at Urbana-Champaign**

Urbana, IL, US

*Course assistant at Department of Mechanical Science and Engineering*

August 2015 - May 2018

- Teach four discussion sessions with a total number of 80 students reviewing the knowledge covered in the lectures and lead students doing worksheet about real world problems
- Participate in meetings each week to report and discuss course materials as well as approach of teaching with instructors, course staffs, and other scholars in School of Education
- Assist instructors and reaching assistants in office hours and online discussion forum answering questions regarding the course materials and logistics to help the students

## **ACTIVITIES**

### **Allo**

Waterloo, ON, CA

*Initiative User Experience Consultant*

November 2020 - February 2021

- Conduct 50 user interviews to identify pain points of Chinese international students in freshman and sophomore year
- Research existing commercial products and apps to understand the market
- Brainstorm features and functions that would help address the identified problem
- Provide wireframes for primary solution to guide further discussions and development

### **MUS-NET Live Database**

Champaign, IL, US

*Research Assistant in Website Design*

June 2017 - February 2018

- Design and improve prototype for data processing website to collaborate with MUS-ROVER website for online music learning application
- Final round website tester to make sure the website is ready for user study research
- Design and conduct the user study research about website efficiency by hosting an online competition about music piece transcription with about 100 participants
- Refine the website based on users' feedback, update new functions and rearrange the content to make the website more user friendly

## **COURSES**

- User Interface Design, Experimental Methods in HCI, Cognitive Engineering Methods

## **SKILLS**

- Axure, Intermediate; Sketch, Intermediate; Figma, Intermediate
- Python, Intermediate; Mathematica, Intermediate; Matlab, Intermediate; Java, Intermediate; C, Intermediate; C++, Intermediate; SASS, Intermediate; SPSS, Intermediate; R, beginner
- Microsoft Office, Professional
- Inventor, Intermediate

## **Language**

- English (fluent)
- Chinese (native)