

# Yirou Li

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## EDUCATION

### **University of Waterloo**

*Master of Applied Science* in Systems Design Engineering

Graduation Date: Dec 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**

*Advisor: Dr. Jennifer Boger*

Waterloo, ON, CA

Jan 2019 – Dec 2020

#### • **Objectives:**

- Developed novel data visualizations using data collected in VR exergames to represent the exercise sessions and player status, help to reduce exercise therapists' workload by providing easy to understand data representations based on their needs and preference
- Evaluated the proposed data visualizations through online questionnaire (47 respondents) to understand the potential usefulness and identify aspects for further improvements

#### • **Role:** Graduate Research Student

### **Optimize Electronic Health Record System for Grand River Hospital**

Waterloo, ON, CA

*Advisor: Dr. Siby Samuel*

Mar 2019 – June 2019

#### • **Objectives:**

- Conducted literature review on EHR system use and design framework
- Evaluated current interface of the system from user experience perspective

#### • **Role:** Graduate Research Assistant

## PROFESSIONAL EXPERIENCE

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

Champaign, IL, US

*User Experience Consultant*

May 2018 - Present

- Provide design prototypes to provide solutions about existing issues or upcoming features in Wolfram Products
- Conduct user testing and user research to understand user expectation 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.
- Provide suggestions to 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*

Aug 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*

Nov 2020 - Feb 2021

- Conduct 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 discussion and development

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

Champaign, IL, US

*Research Assistant in Website Design*

Jun 2017 - Feb 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
- 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)