

Zhiyuan Zhang

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EDUCATION

University of Michigan

Aug 2021 - Apr 2023

M.S. Information | Track: UX Design and HCI

GPA: 4.0/4.0

Courses: Interaction Design, Contextual Inquiry and Consulting, Needs Assessment and Usability Evaluation, Graphic Design, Accessible and Responsive Web Design, Building Interactive Applications, AR/VR Advanced, Online Communities, etc.

Shanghai Jiao Tong University

Sep 2018 - Aug 2022

B.S. Electrical and Computer Engineering | Minor in Computer Science | Minor in Data Science

GPA: 3.5/4.0

Courses: System Design and Manufacturing, Software Engineering, Data Structure and Algorithms, Probabilistic Methods in Eng., Artificial Intelligence, Computational Methods for Statistics and Data Science, etc.

WORK EXPERIENCE

City of Lansing

Lansing, MI

Citizen Interaction Design Intern

June 2022 - Aug 2022

- Conducted competitive analysis of 12 products, 15+ stakeholder interviews, 5 user interviews, field research, anecdotal research and survey to understand the Fats, Oils and Grease (FOG) problems at Lansing
- Designed a FOG program that reduces 2/3 of the city's original cleaning and laboring cost on FOG
- Created two digital prototypes using Figma, including a campaign website that communicates the FOG problems with the citizens of Lansing and a management tool that helps restaurants owners manage FOG

PROJECT & RESEARCH EXPERIENCE

“CourseCompass” Interaction Design Project (UMSI)

Sep 2021 - Dec 2021

Researcher & Designer

- Uncovered a problem faced by students using background research and competitive analysis
- Empathized with users by doing needfinding interviews and contextual inquiry
- Created storyboard, scenarios, story mapping to deeply understand the users
- Built low-fi & mid-fi prototype based on story maps and user-flow diagram
- Built hi-fi prototype based on usability test and made final presentation

Computational Biology, Bioinformatics and Biological Computing Lab (SJTU)

Apr 2021 - Sep 2021

Research Assistant; Supervisor: Dr. Hongyi Xin

Research Project: Novel Approach to Single-Cell RNA Sequence Data Normalization and Differential Analysis

- Discovered a false assumption in scRNA-seq that would confound data normalization
- Developed a novel normalization method that solves the problem
- Measured, quantified and visualized error caused by existing methods

Research Laboratory on Data Communication and Engineering (SJTU)

Sep 2019 - Mar 2021

Research Assistant; Supervisor: Dr. Xiaofeng Gao

Participation in Research Program: Social Influence Prediction using Graph Neural Networks

- Discovered a problem that cannot be captured by existing influence prediction models
- Leveraged a novel graph neural network model to capture the network structure
- Conducted experiments on large real-world datasets and composed results into a scientific report

OTHER

Teaching Assistant (SJTU)

May 2021 - Aug 2021

Course: Intro to the History of Art; Professor: Dr. Aline Chevalier

- Held office hours and helped with organizational issues

SKILLS

Design: UI/UX Design, Contextual Inquiry, User Research, Story mapping, Usability Analysis, Wireframe, Prototype

Programming: JavaScript, Python, C/C++, HTML/CSS, R, Verilog, MATLAB

Coursera: Applied Data Science with Python Specialization, Python3 Programming Specialization, Google UX Design Specialization (In Progress), Extended Reality for Everybody Specialization (In Progress)