

# Nina Ziwei Chen

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## Publication

### *Where's the Water? Supporting Clean Water Access for the Homeless Community*

Ziwei Chen\* and Alexandra Balmaceda\*. In Extended Abstracts of the CHI Conference (CHI EA '24).

CHI 2024 **Student Design Competition Winner (Top 2 / 43)**.

## Research Experience

### Community Learning Bias in U.S. Undergraduate Computer Science Privacy Education

Mar 2024 - Present

Advised by Dr. Kristen Vaccaro at UC San Diego

- Improved the accuracy from 61% to 94% in the reading extraction task and accuracy from 65% to 80% in the privacy protection classification task **using LLMs with chain-of-thought, self-consistency and LLM verifiers**.
- Categorized the reasons behind parsing errors from university websites offering privacy-related courses

### Supporting Clean Water Access for the Homeless Community

Sept 2023 - Dec 2023

Advised by Dr. Florian Schaub at University of Michigan

- Conducted 5 expert consultations to ensure respectful interactions with marginalized communities.
- Designed **semi-structured interview protocols** with homeless community in Ann Arbor, Michigan, and **conducted thematic analysis** to identify 4 high-level community-specific needs.
- Designed an **interactive prototype** used for **usability testing** and iterated designs based on the community feedback.
- Drafted academic paper for the CHI submission and presented work to the panel in front of CHI audiences.

### Peer+: Facilitate Peer Instruction in Synchronous Class Discussions

Sept 2021 - Feb 2022

Advised by Dr. Barbara Ericson at University of Michigan

- Designed **semi-structured interview protocols** and **conducted interviews** with undergraduate students who used Peer+, which supports synchronous peer instruction.
- Created detailed answer explanations for Python exercises on the open-source Runestone eBook platform.

## Work Experience

### Dusty Robotics

Product Designer

Jan 2024 - Present | Mountain View, CA

- Proposed and designed the "Stationing Mode" feature for robot operator community to enhance information transparency in robot setup.
- Received the company-wide Best Proposal award.

## Education

### University of Michigan, Ann Arbor

MS, Human-Computer Interaction

Sept 2021 - Dec 2023 | Ann Arbor, MI

GPA 3.95/4.0

### Zhejiang University

BA, English Literature

Sept 2016 - Jul 2020 | Hangzhou, China

GPA 3.85/4.0

## Teaching Experience

### 422 - Needs Assessment and Usability Evaluation

TA, Jan 2023 - April 2023 | Ann Arbor, MI

Taught UX research methods and provided mentorship for student projects.

### 588 - Fundamentals of Human Behavior

TA, Sept 2022 - Dec 2022 | Ann Arbor, MI

Taught a graduate-level course on applying psychology principles to UI design.

## Skills

### Research

User interview, survey design, thematic coding, usability testing, card sorting, Wizard-of-Oz.

### Design

Low and high-fidelity Prototyping, AR/VR Design, User Persona, Journey Mapping.

### Programming

Python, Java, HTML, CSS.