

## Research Interests

My research interests lie broadly in Human-Computer Interaction (HCI) and Human-centered AI. I am interested in investigating the challenges in people's interactions and reliance on automated systems. My research goal is to 1) give people more autonomy when using automated systems, and 2) design technologies that adapt to personalized needs across various contexts.

## Education

### National Yang-Ming Chiao-Tung University\* (NYCU)

B.S. in Computer Science

Sept. 2018 - June 2022

Hsinchu, Taiwan

- **Overall GPA:** 3.84/4.3 | **Major GPA:** 3.91/4.3 | **Last 60 Credits:** 4.07/4.3
- **Selected Coursework:** Data Structures, Database Systems, Operating Systems, Machine Learning, Natural Language Processing, User Experience & Usability Evaluation, CSCW Research Summer Institute

\*Former name: National Chiao Tung University (NCTU)

## Research Experience

### NYCU Mobile Ubiquitous Interaction Lab, Undergraduate Researcher/Research Assistant

Sep. 2020 - Present

Advisor: Dr. Yung-Ju (Stanley) Chang

Hsinchu, Taiwan

- Conducted studies using the experience-sampling method (ESM), diaries, and interviews to investigate users' perceptions of automatic, manual, and hybrid notification management methods, and the findings resulted in a full paper submission to 2024 IMWUT [J.1] and a poster presented at the 2023 UbiComp/ISWC conference [P.1]
- Led 3 college students and 1 graduate student to research and build an Android application that allows users to manually pin, sort, and categorize notifications, while also providing automatic sorting and categorization capabilities by the implementation of the BERT model and Flask [project site]
- Employed thematic analysis to identify users' strategies for customizing mobile notification alerts, and the findings resulted in a full paper submission to 2024 MobileHCI conference [C.3]
- Researched and conducted mixed-methods analysis on users' notification interactions in multi-device environments, and the findings resulted in a paper at the 2023 CHI conference [C.2]

### Polytechnique Montreal Human-Centered Design Lab, Research Intern

June 2021 - Jan. 2022

Advisor: Dr. Jinghui Cheng

Remote

- Conducted a qualitative content analysis and a statistical analysis to understand the usage, purposes, and impacts of visual artifacts in GitHub issue tracker system, the findings resulted in a paper at the 2022 EASE conference [C.1]

## Peer-Reviewed Publications

(\* indicates equal contribution)

[J.1] **Pinning, Sorting, and Categorizing Notifications: A Mixed-methods Usage and Experience Study of Mobile Notification-management Features** [In submission to ACM IMWUT '24 (R&R Cycle)] [link to paper][project site]

**Yong-Han Lin**, Li-Ting Su, Uei-Dar Chen, Yi-Chi Lee, Peng-Jui Wang, Yung-Ju Chang.

[C.3] **"I Want Lower Tone for Work-Related Notifications": Exploring the Effectiveness of User-Assigned Notification Alerts in Improving User Speculation of and Attendance to Mobile Notifications** [In submission to ACM MobileHCI '24] [link to paper]

Tang-Jie Chang, Li-Ting Su, **Yong-Han Lin**, Jie Tsai, Zi-Xun Tang, Yung-Ju Chang.

[P.1] **Automatic, Manual, or Hybrid? A Preliminary Investigation of Users' Perception of Features for Supporting Notification Management** [link to paper][project site]

**Yong-Han Lin**, Li-Ting Su, Uei-Dar Chen, Peng-Jui Wang, Yi-Chi Lee, Yung-Ju Chang. In *Adjunct Proceedings of the 2023 ACM International Joint Conference on Pervasive and Ubiquitous Computing & the 2023 ACM International Symposium on Wearable Computing (UbiComp/ISWC '23)*, pp. 98-102.

[C.2] **Multiple Device Users' Actual and Ideal Cross-device Usage for Multi-Stage Notification-Interactions: An ESM Study Addressing the Usage Gap and Impacts of Device Context** [link to paper]

Fang-Ching Tseng, Zih-Yun Chiou, Ho-Hsuan Chuang, Li-Ting Su, **Yong-Han Lin**, Yu-Rou Lin, Yi-Chi Lee, Peng-Jui Wang, Uei-Dar Chen, Yung-Ju Chang. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*, pp. 1-15.

[C.1] **Understanding the Characteristics of Visual Contents in Open Source Issue Discussions** [link to paper]

Vishakha Agrawal\*, **Yong-Han Lin\***, Jinghui Cheng. In *Proceedings of the 26th International Conference on Evaluation and Assessment in Software Engineering (EASE '22)*, pp. 249-254.

## Teaching Experience

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### Teaching Assistant

NYCU CS 1270: Introduction to Database Systems (Spring 2022)

Instructor: Dr. Yi-Ju Tseng

### Course Assistant

NYCU General Education: Critical and Creative Thinking (Spring 2021)

Instructor: Dr. Jonathon Hricko

## Honors and Awards

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### Cornell, Maryland, Max-Planck Pre-doctoral Research School Invitation (Summer 2024)

Awarded a travel grant to participate in person at Max-Planck Institute to learn about cutting-edge research in computer science

### Taiwan National Science and Technology Council Research Grant Award (Fall 2021)

Awarded a grant for doing research on studying users' perception of automatic and manual notification management methods

### Polytechnique Montreal Research Internship Scholarship (Summer 2021)

Awarded a scholarship for doing research on improving the usability of scientific open source software

## Volunteer and Leadership

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### Student Volunteer

CHI 2023, Hamburg

Provided support for paper session, hybrid Zoom meeting, and exhibit hall

CSCW 2022, Virtual

Monitored paper presentation video on YouTube livestream, and provided quick responses in GatherTown

### Team Leader in Public Relation

Mei-Chu Hackathon 2020

Led a team of 6 students to contact corporate sponsorship and received 40K+ USD from Google, Amazon, etc

## Industry Experience

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### Software Engineering Intern

Jan. 2021 – June 2021

Xaduro Inc. (*travel tech startup*)

Taipei, Taiwan

- Collaborated with the engineering team to develop a travel agency system that allows 1K+ users by using MySQL, PHP, and JavaScript
- Optimized the hotel reservation system by fixing 80% of the usability issues detected from Google Search Console

## Skills

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**Programming Languages** : Python, JavaScript, R, Java, C++/C, SQL, PHP, HTML, CSS

**Tools** : Android, Git, Firebase, Flask, Linux,  $\text{\LaTeX}$