YONG-HAN LIN

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Education

University of Illinois Urbana-Champaign (UIUC)   Aug 2025 - Dec 2026
Master of Computer Science   Champaign, Illinois

- Relevant Coursework: Applied Machine Learning, Advanced Topics in Natural Language Processing, Software Engineering

National Yang Ming Chiao Tung University (NYCU)   Sep 2018 - Jun 2022
Bachelor of Science in Computer Science   Hsinchu, Taiwan

- Overall GPA: 3.84/4.3
- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Cloud Services & Development, Network Programming, Linear Algebra, Discrete Mathematics, Probability, User Experience Design & Usability Evaluation

Skills

Programming : Python, Java, Kotlin, C++/C, SQL, JavaScript, MATLAB, PHP, HTML/CSS, R
Software and Tools : Flask, Firebase, Android, Git, Google Cloud Platform, AWS, PyTorch, TensorFlow, LaTeX
Research Methodologies : Experience Sampling, Usability Testing, Interviews, Thematic Analysis, Diary Studies

Research Experience

Screenshot-Based Labeling Tool for Analyzing Smartphone Behaviors   Sep 2024 - Jun 2025
NYCU Research Assistant | Advisor: Dr. Yung-Ju (Stanley) Chang   Hsinchu, Taiwan

- Engineered features in Android app to support specific screenshot collection and experience sampling studies
- Collaborated on project by conducting three-week studies with 150+ users, resulting in a poster paper at UbiComp 2025 [P.2]

Designing Intelligent Notification Agents for Information Management   Jul 2022 - Aug 2024
NYCU Research Assistant | Advisor: Dr. Yung-Ju (Stanley) Chang   Hsinchu, Taiwan

- Evaluated effectiveness of notification system by conducting within-subjects field study and analyzing 100k+ notification logs and 2k+ experience-sampling questionnaires, findings resulting in first-author full conference paper at UbiComp 2024 [C.4]
- Led four students to design and develop concurrent Android notification system with sorting, pinning, and categorization features using BERT model, Flask, Room Database, Firebase, and Google Cloud [project site]
- Collaborated on notification-related projects:1) Multi-device notification interaction, 2) Customized notification alert system, and 3) LLM-powered notification summary system, by contributing to mixed-methods analysis, literature reviews, and paper writing, resulting in three full paper at CHI 2023 [C.2], MobileHCI 2024 [C.3], and MobileHCI 2025 [C.5]

Exploring the Characteristics of Visual Contents in Open Source Issue Discussions   Jun 2021 – Jan 2022
Research Intern | Advisor: Dr. Jinghui Cheng   Remote

- Investigated usage, purposes, and impacts of image and video data in 4k+ GitHub issues by web crawling, statistical and thematic analyses, findings resulting in co-first author full conference paper at EASE 2022 [C.1]
- Researched for improving use of open-source software with 5+ researchers from McGill University and Polytech Montréal

Peer-Reviewed Publications

CONFERENCE & JOURNAL PAPER

[C.5] Uei-Dar Chen, Peng-Jui Wang, Yi-Chi Lee, **Yong-Han Lin**, Yu-Ling Chou, Yung-Ju Chang. From Overwhelmed to Overview: Understanding Smartphone Users' Preferences and Expectations in Relieving Notification Overload via Text Summarization. In *Proceedings of the ACM on Human-Computer Interaction* **(MobileHCI 2025)**.

[C.4] **Yong-Han Lin**, Li-Ting Su, Uei-Dar Chen, Yi-Chi Lee, Peng-Jui Wang, Yung-Ju Chang. Pinning, Sorting, and Categorizing Notifications: A Mixed-methods Usage and Experience Study of Mobile Notification-management Features. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* **(UbiComp 2024)**. [paper][project site]

[C.3] Tang-Jie Chang, Li-Ting Su, **Yong-Han Lin**, Jie Tsai, Zi-Xun Tang, Yung-Ju Chang. "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 *Proceedings of the ACM on Human-Computer Interaction* **(MobileHCI 2024)**. [paper]

[C.2] 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. 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. In *Proceedings of the ACM Conference on Human Factors in Computing Systems* **(CHI 2023)**. [paper]

[C.1] **Yong-Han Lin***, Vishakha Agrawal*, Jinghui Cheng (*co-first authorship). Understanding the Characteristics of Visual Contents in Open Source Issue Discussions: A Case Study of Jupyter Notebook. In *Proceedings of the 26th International Conference on Evaluation and Assessment in Software Engineering* **(EASE 2022)**. [paper] [video]

POSTER PAPER

[P.2] Je-Wei Hsu, Ching-Ting Lin, Uei-Dar Chen, Jui-Ching Kuo, Jui-Chun Liu, **Yong-Han Lin**, Chen-Ya Chen, Razieh Pour Afshari, Yifei Lu, Joseph Bayer, Yung-Ju Chang. PULSE: A Screenshot-Based Labeling Tool for Investigating Smartphone Behavior, Intent, and Perception. In *Adjunct Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing & the ACM International Symposium on Wearable Computing* **(UbiComp 2025)**.

[P.1] **Yong-Han Lin**, Li-Ting Su, Uei-Dar Chen, Peng-Jui Wang, Yi-Chi Lee, Yung-Ju Chang. Automatic, Manual, or Hybrid? A Preliminary Investigation of Users' Perception of Features for Supporting Notification Management. In *Adjunct Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing & the ACM International Symposium on Wearable Computing* **(UbiComp 2023)**. [paper][project site]

Industry Experience

Software Engineering Intern   Jan 2021 – Jun 2021
Xaduro Inc.   Taipei, Taiwan

- Developed 1k+ users online travel agency [official site] with engineering team using MySQL, JavaScript, PHP, and AWS
- Optimized 20+ partnered hotel reservation websites by fixing bugs in front-end interface and back-end server

Teaching Experience

UIUC CS 411: Database Systems (Fall 2025)
Course Assistant
Assist in answering students' questions during lectures, support office hours, and grade homework and quiz assignments

NYCU CS 1270: Introduction to Database Systems (Spring 2022)
Teaching Assistant
Held office hours, supported the creation of questions for assignments, and marked assignments and exams

Honors and Awards

Cornell, Maryland, Max-Planck Pre-doctoral Research School Grant Award (2024)
Awarded travel grant to participate at Max-Planck Institute to learn about cutting-edge research in computer science

Taiwan National Science and Technology Council Student Research Grant Award (2021)
Awarded grant for doing research on studying users' perception of automatic and manual notification management methods

Polytechnique Montréal Research Internship Scholarship (2021)
Awarded scholarship for doing research on improving usability of scientific open source software

Volunteer and Services

Reviewer
ACM CHI 2025 Late-Breaking Work

Student Volunteer
ACM CHI 2023, ACM CSCW 2022