

UEI-DAR CHEN

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EDUCATION

University of Illinois Urbana-Champaign

M.S. in Computer Science

Urbana, IL, USA

Aug 2026 – Expected May 2028

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

B.Sc. in Computer Science & Credit Program of Psychology, cGPA: 4.13/4.3, Major GPA: 4.13/4.3 Sep 2019 – Jun 2023

- **Dean's List (2 times)**, Department of Computer Science: Top 5% of class for Fall 2019 and Spring 2021.
- **Foundation Course Award (3 times)**, Department of Computer Science
Ranked 1st in **Linear Algebra** and **Computer Organization** courses, and 2nd in **Intro. to Algorithms**.

RESEARCH EXPERIENCE

AIMEX Lab, National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Research Assistant, advised by Prof. Yung-Ju Chang

Jul 2021 – Present

- Currently leading development of **Noti**, an **intelligent smartphone notification agent** that learns and adapts to individual preferences to support notification, task, attention, and time management.
- Conducted **semi-structured interviews** and **thematic analysis** to understand how users prefer their notifications summarized (**J2**) and how they wish to express preferences via human-in-the-loop feedback (**C3**, **P4**), and analyzed data from notification system design workshops to understand users' visions of future notification agents (***J3**).
- Contributed to four study-oriented Android apps, including three to study user interactions with notification management features (**P5**, **J2**, **J1**), and a tool to collect mobile screenshots with users' labeled intentions (**C2**, **P3**).

PUBLICATIONS

*C = Conference Paper, J = Journal Article, P = Poster/Workshop Paper, B = Book, * = Under review, † = Equal contribution.*

- C3** Li-Ting Su, **Uei-Dar Chen**, Yu-Shiun Wu, Yi-Jyeie Chen, Jo-Han Huang, and Yung-Ju Chang. "Tell Me Why You're Asking": Exploring How to Increase Engagement in Preference Feedback for Intelligent Notification Systems. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*
- C2** Je-Wei Hsu, Ching-Ting Lin, **Uei-Dar Chen**, Jui-Ching Kuo, Jui-Chun Liu, Yong-Han Lin, Chen-Ya Chen, Yi-Hua Tsai, Razieh Pour Afshari, Yifei Lu, Joseph Bayer, and Yung-Ju Chang. Does Longer Phone Use Always Feel Worse? Examining How Intention and Duration Shape Evaluations of Time Use. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*
- C1** 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**, and 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 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*
- J3** Fang-Hsin Hsu[†], **Uei-Dar Chen**[†], Yi-Jyeie Chen, Li-Ting Su, and Yung-Ju Chang. "I Want It to Do More Than Deliver": Users' Desires for Intelligent Notification Systems. In *Proceedings of the ACM on Human-Computer Interaction Volume 10 Issue 5 (PACM MHCI '26)*
- J2** **Uei-Dar Chen**, Peng-Jui Wang, Yi-Chi Lee, Yong-Han Lin, Yu-Ling Chou, and 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 Volume 9 Issue 5 (PACM MHCI '25)*
- J1** Yong-Han Lin, Li-Ting Su, **Uei-Dar Chen**, Peng-Jui Wang, Yi-Chi Lee, and Yung-Ju Chang. Pinning, Sorting, Categorizing Notifications: A Mixed-methods Study of Usage and Experience with Mobile Notification Management Features. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Volume 8, Issue 3 (IMWUT '24)*
- P5** **Uei-Dar Chen**, Rui-Jie Huang, Yu-Shiun Wu, Yi-Chia Wang, and Yung-Ju Chang. Clear Yet Insufficient: Why Users Still Return to Source Notifications After Task Extraction. In *Proceedings of the Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems (CHI EA '26)*

- P4** Li-Ting Su, **Uei-Dar Chen**, Jo-Han Huang, Yi-Jyeie Chen, Yu-Shiun Wu, and Yung-Ju Chang. Designing Human-in-the-Loop for Mobile Intelligent Notification Systems: Exploring User Preferences for Timing and Form. In *Adjunct Proceedings of the 2025 ACM International Joint Conference on Pervasive and Ubiquitous Computing & the 2025 ACM International Symposium on Wearable Computing (UbiComp/ISWC '25 Adjunct Poster)*
- P3** 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, and Yung-Ju Chang. PULSE: A Screenshot-Based Labeling Tool for Investigating Smartphone Behavior, Intent, and Perception. In *Adjunct Proceedings of the 2025 ACM International Joint Conference on Pervasive and Ubiquitous Computing & the 2025 ACM International Symposium on Wearable Computing (UbiComp/ISWC '25 Adjunct Poster)*
- P2** Peng-Jui Wang, Yi-Chi Lee, **Uei-Dar Chen**, and Yung-Ju Chang. NotiSummary: Exploring the Potential of AI-Driven Text Summarization on Smartphone Notification Management. 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 Adjunct Poster)*
- P1** Yong-Han Lin, Li-Ting Su, **Uei-Dar Chen**, Peng-Jui Wang, Yi-Chi Lee, and Yung-Ju Chang. Automatic, Manual, or Hybrid? A Preliminary Investigation of Users' Perception of Features for Supporting Notification Management. 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 Adjunct Poster)*
- B1** Chi-Lung Lee and **Uei-Dar Chen**. Learning AI Theory and Programming with Python (Includes Practice Questions for the Certipoint ITS AI International Certification) [Book Written In Chinese]. (*Gotop Information Inc.*, 2024). ISBN: 978-626-324-737-6

WORK EXPERIENCE

Kapito Inc.	Hsinchu, Taiwan
Software Engineering Intern	Jul 2022 – Sep 2022
- Initiated a data visualization platform with 5 visualizations to spot potential breakdowns in visual defect detectors. - Implemented daily-executing scripts using Apache Airflow to download metadata from remote servers.	

TEACHING EXPERIENCE

Intro. to Algorithms (English Medium Course), Dept. of Computer Science, NYCU	Hsinchu, Taiwan
Teaching Assistant	Aug 2021 – Jan 2022
- Produced 10+ programming tasks, each with partial scoring to evaluate different levels of algorithm knowledge and programming skills. - Administered system of two online programming exams for 100 students. - Hosted English TA hours for local and international students.	
General Programming Exam, Dept. of Computer Science, NYCU	Hsinchu, Taiwan
Exam Task Designer & System Admin	Jun 2022 – Jul 2022
- Designed programming tasks for the department's mandatory programming qualification exam. - Managed exam system for two online programming exam systems of 100 students.	

PROJECTS

Noti Android, Kotlin, Jetpack Compose, n8n	2024 – Present
A smartphone notification app that asks users about their notification preferences to align with their needs for different features (e.g., summarization, prioritization, task extraction) over time.	
NotiSummary Android, Kotlin, Jetpack Compose, TypeScript GitHub	2023
- An open-sourced public app that allows users to summarize their notifications into brief text using ChatGPT. - Features such as customizable prompts and scheduling automatic summaries shape a more user-centric experience.	
NotiManager Android, Java, Python, PyTorch Project Site	2021 – 2024
- A simulation of Android's notification drawer with features such as pinning, sorting, and categorizing notifications. - Uses results from prior research to automatically sort notifications using a deep learning model.	

B.E.A.S.T. | PyTorch Lightning, Plotly, Pandas, WandB | [GitHub](#)

2021

3rd in 7th ETC Data Application Contest, Freeway Bureau

- A GRU-based attention model to predict freeway traffic during national holidays, given conditions and measures.

Respiratory Disease Inspection Platform | PyTorch | [GitHub](#)

2020

3rd in 4th Young Turing Program Project Contest, SYSTEX

- A residual neural network to check for potential diseases using respiratory sounds from microphoned stethoscopes.

FCS Orientation Platform | React | [GitHub](#)

2021

- Designed and built the front-end of a live web platform for an afternoon-long campus orientation game at NYCU, used by 40 incoming students from two partner high schools.
- Co-designed the game activities and implemented a real-time leaderboard and in-app team chat for the on-campus event.

SKILLS

Programming: Kotlin, Python, Java, TypeScript, C/C++

Tools: Android, Jetpack Compose, n8n, Atlas.ti, PyTorch, Numpy, Pandas, $\LaTeX$

Languages: Mandarin (Native), English (TOEFL iBT 115/120 – R30 L30 S26 W29), Japanese (JLPT N3)

AWARDS & ACHIEVEMENTS

2022 Google Codejam Round 3 Finalist: Ranked 589th among 28311 individuals in a worldwide programming contest.

Silver Award, 2019 ICPC Taipei-Hsinchu Regional Contest: Ranked 15th out of 108 teams in the algorithmic competition.

Participated in 2019 ICPC Yokohama Regional Contest in the same year, ranked 22th out of 52 teams.