UEI-DAR CHEN

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EDUCATION

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 a **human-in-the-loop RAG-based smartphone notification system** that dynamically adapts to users' preferences and **prompts reflection via visualization** of LLM-learned preferences.
- Conducted **semi-structured interviews** and **thematic analysis** to understand how users prefer their notifications summarized (C3) and how they wish to express preferences via human-in-the-loop feedback (P4).
- Contributed to three study-oriented Android apps, including two to study user interactions with notification management features (C3, C2), and a tool to collect smartphone screenshots with users' labeled intentions (P3).

PUBLICATIONS

C3   **Uei-Dar Chen**, Peng-Jui Wang, Yi-Chi Lee, Yong-Han Lin, Yu-Ling Chou, and Yung-Ju Chang. Pinning, Sorting, Categorizing Notifications: 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)*

C2   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)*

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)*

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 Certiport ITS AI International Certification [Original 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, 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.

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

NotiSummary | Android, Kotlin, Jetpack Compose, TypeScript | *GitHub*

- 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*

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

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

Skills

Programming: Python, Kotlin, C/C++, React.js, Java   **Tools:** Android, Jetpack Compose, Numpy, Pandas, LaTeX, Atlas.ti
Languages: Mandarin (Native), English (Professional, **TOEFL iBT 115/120**), Japanese (Basic, **passed JLPT N3**)

Awards & Achievements

2023 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.