

UEI-DAR CHEN

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EDUCATION

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

B.Sc. in Computer Science & Program of Psychology, **cGPA: 4.13/4.3**, **Major GPA: 4.13/4.3**

Sep 2019 – Jun 2023

- **Teaching Assistant of Intro. to Algorithms**, Fall 2021: Produced 10+ tasks and managed the exam system.
- **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

MUI Lab, National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Undergraduate Researcher, advised by Dr. Yung-Ju Chang

Jul 2021 – Present

- Conducted **semi-structured interviews** to understand why, when, and how smartphone users would like a summary of their notifications, along with a public app implemented for users to inspire user's thoughts on the concept.
- Developed a **mobile notification drawer** with extra features to study its effects on user interactions and experience.

PUBLICATIONS

- 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)*
- 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)*

WORK EXPERIENCE

Kapito Inc.

Hsinchu, Taiwan

Software Engineering Intern

Jul 2022 – Sep 2022

- **Initiated a data visualization platform** using Plotly to discover potential breakdowns in visual defect detectors.
- Using Apache Airflow to implement daily executing scripts to download metadata from remote servers.

PROJECTS

NotiSummary | Android, Kotlin, Jetpack Compose, OpenAI API, 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

- 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 potential diseases using respiratory sounds of microphoned stethoscopes.

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.

SKILLS

Programming: Python, C/C++ , Kotlin, React.js, Java

Tools: Android, PyTorch, Numpy, Pandas, Plotly, ~~TeX~~

Languages: Mandarin (Native), English (Professional, TOEFL iBT 109/120), Japanese (Basic, passed JLPT N3)