



# BEN-HAU CHIA

TCS Hall 413, 4665 Forbes Ave, Pittsburgh, PA 15213, United States

✉ [bchia@andrew.cmu.edu](mailto:bchia@andrew.cmu.edu)  [linkedin.com/in/benhauchia](https://www.linkedin.com/in/benhauchia)  [github.com/chiabhoward](https://github.com/chiabhoward)

## Education

### Carnegie Mellon University

Aug. 2024 – Present

*Ph.D. in Software Engineering, Software and Societal Systems Department*

*Pittsburgh, PA*

- Advisor: Chris Timperley and Eunsuk Kang
- Laboratory: Software Design and Analysis Laboratory

### National Taiwan University

Sep. 2021 – June 2023

*M.S., Department of Computer Science and Information Engineering*

*Taipei, Taiwan*

- Advisor: Chung-Wei Lin
- Laboratory: Cyber-Physical Systems Laboratory
- Thesis: Cooperative and Secure Multi-Agent Positioning on Real Coordinates Based on Satisfiability Modulo Theories
- GPA: 4.30/4.30; Rank: 1st (among 136 students)

### National Taiwan University

Sep. 2017 – June 2021

*B.S., Department of Computer Science and Information Engineering*

*Taipei, Taiwan*

- GPA: 4.18/4.30; Rank: 9th (among 124 students)

## Publications

1. C.-C. Fu, **B.-H. Chia**, and C.-W. Lin, (Invited) “Runtime software selection for adaptive automotive systems,” in ACM/IEEE Asia South Pacific Design Automation Conference (ASP-DAC), pp. 748–752, Tokyo (Virtual), Japan, Jan. 2021. [pdf](#)

## Experiences

- Compulsory Military Service, R.O.C. Army *Feb. 2024 – June 2024*
- Research Assistant, NTU *July 2023 – Jan. 2024*
- Teaching Assistant, Digital System Design and Laboratory, NTU *Feb. 2023 – June 2023, Feb. 2021 – June 2021*
- Software Engineer Intern, Dell Technologies *July 2022 – Aug. 2022*
- Teaching Assistant, Operating Systems, NTU *Feb. 2022 – June 2022*
- Assistant Software Engineer, Industrial Technology Research Institute *Oct. 2021 – June 2022*
- Teaching Assistant, Introduction to Intelligent Vehicles, NTU *Sep. 2021 – Jan. 2022*

## Honors

- Member of Phi-Tau-Phi Scholastic Honor Society (Top 3% Graduate Students) *June 2023*
- The 2nd Place, TSMC x Microsoft Careerhack (Group AI Chatbot) *Jan. 2021*
- Two-Time Dean’s List Awards (Top 5% Students) *Apr. 2018, Oct. 2021*

## Services

- Conference & Journal Reviewer
  - ACM Transactions on Cyber-Physical Systems (TCPS) *2023*
  - IEEE Vehicular Networking Conference (VNC) *2023*
  - ACM/IEEE Design, Automation and Test in Europe Conference (DATE) *2023*
  - IEEE Transactions Computer-Aided Design (TCAD) *2022*
  - ACM/IEEE Asia South Pacific Design Automation Conference (ASP-DAC) *2023*
  - IEEE Real-Time Systems Symposium (RTSS) *2022*
  - ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (CODES+ISSS) *2022*
  - ACM Symposium on Applied Computing (SAC) *2022*
  - ACM/IEEE DATE Initiative on Autonomous Systems Design (ASD) *2021*

## Extracurricular Activities

- General Referee in Intelligent Ironman Creativity Contest, Ministry of Education *Apr. 2019 – Aug. 2023*
- Member of CSIE Department Softball Team, NTU *Sep. 2017 – Jan. 2024*
- Captain of CSIE Department Softball Team, NTU *June 2019 – May. 2020*