Yi-Hung Chou

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Education

Ph.D. Student in Software Engineering　　　　　　　　　　　　　　**Sep. 2023 - Jun. 2029**
University of California, Irvine

- Advisor: James A. Jones

M.S. in Software Engineering　　　　　　　　　　　　　　　　　**Sep. 2021 - Jun. 2023**
University of California, Irvine

- Committee Members: David Redmiles, James A. Jones, Tobias Schimmer
- Dissertation: Collaborative Development Experience: A tool to promote workplace awareness through socio-technical visualization

B.S. in Computer Science (Elite Stream)　　　　　　　　　　　　**Sep. 2015 - Jun. 2019**
The Chinese University of Hong Kong

Research Positions

University of California, Irvine　　　　　　　　　　　　　　　　**Sep. 2023 - Present**
Ph.D. student advised by Prof. James A. Jones

ETH Zürich　　　　　　　　　　　　　　　　　　　　　　　**Sep. 2024 - Nov. 2024**
Visiting Ph.D. student advised by Prof. April Yi Wang

SAP - Newport Beach　　　　　　　　　　　　　　　　　　　**Jun. 2022 - Sep. 2023**
Summer student researcher advised by Prof. Tobias Schimmer

University of California, Irvine　　　　　　　　　　　　　　　　**Sep. 2021 - Sep. 2023**
M.S. student advised by Prof. David Redmiles

University of California, San Diego　　　　　　　　　　　　　　**Jun. 2021 - Aug. 2021**
Undergraduate summer research intern advised by Prof. Steven Dow and Prof. Yu-Chun Yen

The Chinese University of Hong Kong　　　　　　　　　　　　　**Jun. 2016 - Aug. 2016**
Undergraduate summer research intern advised by Prof. Michael Lyu

Peer-Reviewed Publications (Paper) (* denotes equal contribution)

[CHI 2025] Organize, Then Vote: Exploring Cognitive Load in Quadratic Survey Interfaces
Ti-Chung Cheng (UIUC), Yutong Zhang (UIUC), **Yi-Hung Chou (UCI)**, Vinay Koshy (UIUC), Tiffany Wenting Li (UIUC), Karrie Karahalios (UIUC), Hari Sundaram (UIUC)

[MSR 2025] Learning from Mistakes: Understanding Ad-hoc Logs through Analyzing Accidental Commits
Yi-Hung Chou (UCI), Yiyang Min (UCI), April Yi Wang (ETH Zürich), James A. Jones (UCI)

[HICSS 2023] Adapting Software Teams to the New Normal: An Early Case Study of Transitioning to Hybrid Work Under COVID-19
Yi-Hung Chou* (UCI), Zhendong Wang* (UCI), Tobias Schimmer (SAP), Rafael Prikladnicki (PUCRS), David Redmiles (UCI)

[CSCW 2021] "I can show what I really like.": Eliciting Preferences via Quadratic Voting
Ti-Chung Cheng* (UIUC), Tiffany Wenting Li* (UIUC), **Yi Hung Chou (CUHK)**, Karrie Karahalios (UIUC), Hari Sundaram (UIUC)

Lightly Peer-Reviewed Publications (* denotes equal contribution) (Poster, Magazine)

[IEEE Software 2023] Co-Designing for a Hybrid Workplace Experience in Software Development
Zhendong Wang (UCI), **Yi-Hung Chou (UCI)**, Kayla Fathi (SAP), Tobias Schimmer (SAP), Peter Colligan (SAP), David Redmiles (UCI), and Rafael Prikladnicki (PUCRS)

[TAICHI 2021 Poster] Quadratic Voting is More Accurate in Gathering Preferences than Likert Scales (Translation, originally in Chinese)
Ti-Chung Cheng* (UIUC), Tiffany Wenting Li* (UIUC), **Yi Hung Chou (CUHK)**, Karrie Karahalios (UIUC), Hari Sundaram (UIUC)

Awards & Grants

- Elite Team, Microsoft Imagine Cup of Hong Kong　　　　　　　　　　　　　　　　2018
- 2nd runner-up, Microsoft ImagineHack　　　　　　　　　　　　　　　　　　　2018
- Dean's List, Computer Science Department, CUHK　　　　　　　　　　　　　　　2018
- Dean's List, Computer Science Department, CUHK　　　　　　　　　　　　　　　2017
- 2017 Honorable Mention, Cathay Pacific Hackathon　　　　　　　　　　　　　　　2017
- Chung Chi College Class Award & Admission Scholarships with Honors at Entrance, CUHK　　2015

Service

Student Volunteering

UIST   Oct. 2023
Conference student volunteer

TAICHI   Sep. 2019 - Oct. 2019
Conference student volunteer

Teaching

IN4MATX 115: Introduction to Software Testing at UC Irvine   Feb. 2024 - Jun. 2024
Teaching Assistant, Approx. 300 students with 4 TAs in total, taught by Prof. James A. Jones

IN4MATX 43: Introduction to Software Engineering at UC Irvine   Oct. 2023 - Dec. 2023
Teaching Assistant, Approx. 300 students with 4 TAs in total, taught by Jess Gillespie

IN4MATX 117: UC Irvine   Apr. 2022 - Jun. 2022
Reader for software engineering capstone project

Mentorship

Jae Yun Kim "IDE extension for automated testing"   Jun. 2023 - Present
Undergraduate at UC Irvine

Christine Nguyen "IDE extension for automated testing"   Jun. 2023 - Present
Undergraduate at UC Irvine

Jose Juan Gonzalez Jr "IDE extension for automated testing"   Jun. 2023 - Present
Undergraduate at UC Irvine

Invited Talks

SWE 211 Software Engineering Guest Lecture taught by David Redmiles   Dec. 2023
Present "AI and Software Engineering" with Prof. Tobias Schimmer with 30 students for both lecture and Q&A discussion

Other Professional Experience

SAP - Newport Beach   Jun. 2022 - Present
iXp part-time and summer intern for software developer & researcher (Developer Productivity)

- Collected and visualized engineering data generated by 1,500+ developers within collaboration tools for both stakeholders to understand the socio-technical relationship across the organization
- Conducted interviews, distributed surveys, and performed qualitative coding to understand productivity and well-being changes under the transition of work arrangement; Papers accepted in HICSS and IEEE Software

CryptoBLK   Mar. 2020 - Jun. 2021
Frontend team lead

- Led five distributed developers with agile methodologies to build an enterprise-level Angular project (101,460 lines of code) from scratch
- Refined frontend workflow by introducing E2E, unit, and vision regression testing using Jasmine, Karma & Cypress and incorporating Storybook to facilitate communication between designers and programmers

IBM   Jul. 2018 - Sep. 2018
Software engineer intern (ChatOps)

- Reduced communication barrier for hundreds of translators by creating a chat widget with NodeJS, Slack API ,and JQuery
- Engineered multiple demo chatbots & websites within a week by utilizing IBM Watson services and Globalization Pipeline to demonstrate the product's feasibility

The Chinese University of Hong Kong, Business Department   Sep. 2017 - Jul. 2019
Technical consultant

- Created a round-based gamified learning platform to teach business concepts to 300+ students in Hong Kong and Japan
- Visualized teams' performance of the game with a real-time dashboard to support 50+ course sessions with Firebase and ReactJS
- Redesigned platform for two major revisions based on qualitative and quantitative surveys distributed to 50+ students