

Chiao Fang

PHD STUDENT · HCI GROUP AT HASO-PLATTNER-INSTITUT

✉ chiao@fang.tw | 🌐 www.chiaofang.tw

Education

Hasso Plattner Institute (HPI)

PHD STUDENT

Advised by Prof. Dr. Patrick Baudisch

Oct. 2022 - Present

Potsdam, Germany

Hasso Plattner Institute (HPI)

MASTER STUDENT IN SOFTWARE SYSTEMS ENGINEERING

Advised by Prof. Dr. Patrick Baudisch

Oct. 2022 - Present

Potsdam, Germany

National Taiwan University (NTU)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE & INFORMATION ENGINEERING WITH A MINOR IN MECHANICAL ENGINEERING

GPA: 4.03/4.30

Sep. 2017 - Jan. 2022

Taipei, Taiwan

Full Papers at CHI/UIST/SCF top-tier HCI conferences

- [1] Chiao Fang[†], Vivian Hsinyueh Chan[†], and Lung-Pan Cheng. 2022. **Flaticulation: Laser Cutting Joints with Articulated Angles**. In *Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22)*. [\[link\]](#) [†] indicates equal contribution
- [2] Bo-Cheng Ke, Min-Han Li, Yu Chen, Chia-Yu Cheng, Chiao-Ju Chang, Yun-Fang Li, Shun-Yu Wang, Chiao Fang, and Mike Y. Chen. 2023. **TurnAhead: Designing 3-DoF Rotational Haptic Cues to Improve First-person Viewing (FPV) Experiences**. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. [\[link\]](#)
- [3] Muhammad Abdullah, Laurenz Seidel, Ben Wernicke, Mehdi Gouasmi, Anton Hackl, Thomas Kern, Conrad Lempert, Clara Lempert, David Bizer, Wieland Storch, Chiao Fang, and Patrick Baudisch. 2024. **PopCore: Personal Fabrication of 3D Foamcore Models for Professional High-Quality Applications in Design and Architecture**. In *Proceedings of the 9th Annual ACM Symposium on Computational Fabrication (SCF '24)*. [\[link\]](#)

Research Experience

Human Computer Interaction Lab, HPI

PHD STUDENT, SUPERVISED BY PROF. DR. PATRICK BAUDISCH

- Researching on personal fabrication and assembly workflows in fabricating laser-cut objects

Oct. 2022 - Present

Potsdam, Germany

Computational Physicality Lab, NTU

UNDERGRADUATE RESEARCHER / RESEARCH ASSISTANT, SUPERVISED BY PROF. LUNG-PAN CHENG

- Proposed special laser-cut joint to facilitate the assembly of 3D objects
- Constructed a large, interactive mid-air surrounding shape display

Sep. 2020 - Jul. 2022

Taipei, Taiwan

Human Computer Interaction Lab, NTU

UNDERGRADUATE RESEARCHER, SUPERVISED BY PROF. MIKE Y. CHEN

- Researched on haptics using compressed air in VR to alleviate cybersickness and improve viewing experience for immersive videos
- Designed haptic feedback for impacts, analyzed data from user studies, and provided visualizations of the data

Feb. 2020 - Sep. 2020

Taipei, Taiwan

Teaching Experience

Building Interactive Systems

TEACHING ASSISTANT

Undergraduate-level course at Hasso Plattner Institute, Instructed by Prof. Patrick Baudisch

Lectured "Make a PCB" (2h with in-class exercises)

Summer 2023, 2024, 2025

Potsdam, Germany

Honors & Awards

Scholarship in Software Systems Engineering (€22 800), Hasso Plattner Institute

May. 2022

1st Place (NT\$30 000) (out of 20 research projects), Undergraduate Research Project, NTU CSIE

Jun. 2022

Best Presentation (out of 20 research projects), Undergraduate Research Project, NTU CSIE

Jun. 2020

Dean's List (3 times), NTU (GPA in top 5% of the department)

Fall '17, Spring '18, Fall '19

Academic Community Service

Reviewer

CHI (2023, 2024), UIST (2024), MOBILEHCI (2022), TAICHI (2023, 2024)

Taiwan Night @ CHI '23

TAIWANESE ASSOCIATION OF COMPUTER HUMAN INTERACTION

Organized party at CHI to connect people and promote works from the Taiwanese CHI community

UCCU 2021

TAIWANESE ASSOCIATION OF COMPUTER HUMAN INTERACTION

Organized a local event for Taiwanese HCI researchers to meet up and share works published at top HCI venues during the pandemic

Skills

Programming Languages Python, C/C++

Library/Toolkit OpenCV

CAD AutoCAD, Fusion 360, Inventor, SolidWorks, Rhinoceros 3D

Graphics/Video Illustrator, Photoshop, Premiere, DaVinci Resolve

Prototyping/Fabrication Microcontroller development, Electronics, PCB, 3D printing, Laser cutting, Woodworking, Sewing, Molding

Other \LaTeX

Languages Mandarin Chinese (native), English (TOEFL: 107)

Design Projects — [CHIAOFANG.TW/#PORTFOLIO](https://chiaofang.tw/#portfolio)

I have been building various design projects to explore different materials and fabrication methods. I picked up woodworking and sewing skills among other fabrication skills through out the process. Those projects are showcased in my portfolio. Integrating my enthusiasm for technology, design, and maker culture has led to / built up my research interest in personal fabrication.

