Shih Kang Chiu

▼ Taipei, Taiwan

+886-909-004-221

di9italmaximalism@gmail.com

Developer ∼ Engineer

crappyactionfiguremaster.com

SUMMARY

My research area focuses on Human-Computer Interaction (HCI). I apply my expertise specifically in advanced haptic feedback for AR/VR applications and granting novel properties to enhance user experience, for short, I engineer custom-made interactive devices.

My graduation thesis has centered on leveraging user-in-the-loop LLM to enhance real-time note-taking in mobile settings using AR headset and eye-tracking tehcnique.

I have extensive experience in Unity development. In addition to 2D and 3D games, I also have experience with VR games and applications (including Vive, Oculus, and Hololens).

I participated in various competitions and industryacademia collaborations, received multiple scholarships, and maintained well academic performance. For detailed project information, please visit my personal website.

SKILLS

Languages: C#, Python, JavaScript

Technologies: Unity, Arduino, Fusion 360, Blender

EDUCATION

8/2022 Department of Computer Science
National Chengchi University
Avg 91.41 / GPA 4.30

9/2014 **Department of International Business**

National Chengchi University

PUBLICATIONS

Graduation Thesis GazeNoter: Co-Piloted AR Note-Taking via Gaze Selection of LLM Suggestions to Match Users' Intentions. Shih-Kang Chiu, Bryan Wang, Hsin-Ruey Tsai

Under review

HCI / LLM / AR

MSc

BBA

Publication

transPAF: Rendering Omnidirectional Impact Feedback with Dynamic Point of Application of Force All Round a Controller.

Hong-Xian Chen, Shih-Kang Chiu, Chi-Ching Wen, Hsin-Ruey Tsai

Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI' 23)

 \mbox{HCI} / \mbox{VR} / $\mbox{Haptic feedback}$

Thesis

Prop Revolver: A forearm-worn device renders changeable props with manipulation and force feedback in XR.

Wei-Lin Hsu, **Shih-Kang Chiu**, Hsin-Ruey Tsai *Under review*

HCI / VR / Haptic feedback

PROJECTS

1/2024 | 7/2024

Delta x NTU: User-in-the-loop AI and XR Combined Human-Robot Collaboration

Industry cooperation

• Pl: Robin Bing-Yu Chen Co-Pl: Hsin-Ruey Tsai

Incorporating user engagement in AI and XR combined human-robot collaboration and delves into the complexities of interacting with multiple robots, various input modalities, and diverse commanding methodologies.
 HRI / LLM / VLM

9/2023

Freeperson: The Digital-Twins Machine

Digital content exhibition

8/2022

PI: Tao Ya-Lun

• A interactive exhibition connecting two physical spaces by creating a co-located digital body of the user using an autonomous robot, a wearable prop device, and XR headset.

HRI / Haptic feedback / Immersive design

HONOURS & AWARDS

2023 Academic Paper Award - College of Informatics, Academic Year 111

· Scholarship holder

2023 NIICC The National Collegiate Innovation Integration Competition

- Honorable Mention
- We propose transPAF, a controller that could render omnidirectional impact feedback with dynamic Point of Application of Force (PAF) all around the controller.

2024 Outstanding Competition Achievement Award - College of Informatics, Academic Year 113

· Scholarship holder

2024 Mobileheroes Global

- Top 10 (final round and ongoing)
- We propose GazeNoter which pioneers a user-in-the-loop LLM and AR technology to achieve real-time note-taking during speech-based activity.

TEACHING ASSISTANT EXPERIENCE	
2022-Fall Virtual Reality Haptic Interactions	Computer Science
2023-Spring Interaction Technologies Research and Discussion	Computer Science
2023-Spring Implementation of Digital Content and Technologies	Digital Content and Technologie
2023-Fall Introduction to Digital Contents and Technologies	Digital Content and Technologie
2024-Spring Implementation of Digital Content and Technologies	Digital Content and Technologie
2024-Spring Special Projects on Digital Content and Technology	Digital Content and Technologie
LANGUAGES	

Chinese - native, English - fluent (TOEIC 910)