Yu Lun, Hsu

r12922090@ntu.edu.tw | (+886) 970-395-763 | Computer Science | Physician | HCI researcher

Education

M.S. in Computer Science and Information Engineering, National Taiwan University **2023.09 - Present**

- Under the supervision of Prof. Mike Y. Chen. Published 4 papers while maintaining a GPA of 4.30/4.30.
- Researching virtual reality, mixed reality, LLMs, UI design, web design and deployment.
- Thesis: **Designing AI assistants for end-of-life medical planning**. Leveraged connections with 2 hospitals to facilitate interdisciplinary collaboration. Developed a website-based AI chatbot that achieved an excellent SUS score (80.6) and significantly enhanced decisional confidence.

B.S. in Medicine, National Taiwan University **2017.09 - 2023.06**

- Obtained a Physician's license in 2023.07. Published two papers in medical journals (IF: 3.2 & 4.9)
- Academic Excellence Award (rank 2/156), graduated with GPA: 4.15/4.30

Work Experience

Physician - Jian-an clinic **2023.08 - Present**

- Provided medical care to 5,000+ patients in Wanhua District

Backend Software Engineer - One-Forty **2024.11 - 2024.12**

- Developed a Messenger chatbot to provide user-friendly medical advice for migrant workers.

APCS coding Instructor - ITtraining **2019.04 - 2019.09**

- C & Python coding courses to 60+ students and responsible for editing the textbook (ISBN: 9789869692557)

Publication

Exploring Augmented Reality Interface Designs for Virtual Meetings in Real-world Walking Contexts

Chiao-Ju Chang, Yu Lun Hsu, Wei Tian Tan, Yu-Cheng Chang, Pin-Chun Lu, Yu Chen,Yi Han Wang, Mike Y. Chen
(DIS '24 Full Paper - Honorable Mentioned Award 🏆)
- Responsible for AR interface implementation (Unity & Meta Quest HMD), study design and data analysis

VeeR: Exploring the Feasibility of Deliberately Designing VR Motion that Diverges from Mundane, Everyday Physical Motion to Create More Entertaining VR Experiences

Pin-Chun Lu, Che-Wei Wang, Yu Lun Hsu, Alvaro Lopez, Ching-Yi Tsai, Chiao-Ju Chang, Wei Tian Tan, Li-Chun Lu, Mike Y. Chen
(CHI'24 Full Paper)
- Responsible for Unity scene construction, user study design, and study implementation.

AnimalSense: Understanding Beyond-human Sensory Capabilities of Animals via VR Games.

Yu Lun, Hsu, Chien-Ting, Lu, Li-Chun, Lu, Chih-Heng, Tam, Yu-Chieh, Sun, Ting-Kang, Wang
(CHI'24 Extended Abstract - Honorable Mentioned Award 🏆 for Student Game Competition)
- Led a team of engineers and designers to develop an educational VR game.
- Utilized sensory substitution in Unity to enhance animal education and awareness.

Experience from Designing Augmented Reality Browsing Interfaces for Real-world Walking Scenarios.

Yu-Cheng Chang, Yen-Pu Wang, Chiao-Ju Chang, Wei Tian Tan, Yu Lun Hsu, Yu Chen, and Mike Y. Chen
(MobileHCI'24 Full Paper)
- Identified that traffic level and content type significantly impact window placement design in walking contexts

Deep Learning for Automatic Quality Grading of Mangoes: Methods and Insights

Shih-Lun Wu, Hsiao-Yen Tung, Yu Lun Hsu
(ICMLA 2020 Full Paper)
- Proposed ways to segment mango images and increase model accuracy by 2.6 %

Technical Skills & Others

Programming Python, C/C++, C#, Java, JavaScript, HTML, CSS, Verilog **License** Physician

Dev Tool PyTorch, TensorFlow, Unity, Git, Linux, Docker, Arduino, Shell Scripts, Adobe Photoshop, Premiere

Activities

Ball Juggler and Ballon Artist with rich stage performance
NTU Medical Students' Association, Minister of Information Department
National Intercollegiate Athletic Games, soft tennis mixed doubles, 4th place