

# Ryan YEN

Human Computer Interaction | VR/AR | HAI

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I have a strong background in HAI, CSCW and NLP in the HCI field and have completed three years of HCI research and two years of internship. I am interested in the direction of using augmented reality applications in HCI to enhance learning experiences.

## EDUCATION

- |                          |   |
|--------------------------|---|
| Present<br>Jan 2023      | Department of Computer Science, UNIVERSITY OF WATERLOO, <ul style="list-style-type: none"><li>&gt; UW Grad Scholarship</li><li>&gt; International Masters Award Excellence</li><li>&gt; Graduate Research Studentship Scholarship</li></ul>   |
| June 2022<br>Sep 2018    | Department of Computer Science, CITY UNIVERSITY OF HONG KONG, <ul style="list-style-type: none"><li>&gt; Vice President of Computer Science Student Chapter</li><li>&gt; 4 years Full CityU International Student Scholarship</li><li>&gt; Awarded Dean's List 2019/20</li><li>&gt; HKSAR Government Scholarship Fund, STEM Internship Scholarship, Department Overseas Learning Funding, English Proficiency Scholarship</li></ul> |
| August 2021<br>June 2021 | Department of Statistic, STANFORD UNIVERSITY, <ul style="list-style-type: none"><li>&gt; Summer Visit Student</li><li>&gt; HKSAR Government Reaching Out Awards Funding</li><li>CGPA 4.0/4.0</li></ul>  |
| August 2021<br>June 2021 | Department of Information Engineering, UNIVERSITY OF HRADEC KRALOVE, <ul style="list-style-type: none"><li>&gt; Summer Visit Student</li><li>&gt; CityU Outbound Exchange Scholarship</li></ul>   |

## RESEARCH

- |                         |   |
|-------------------------|---|
| Present<br>October 2021 | MEI Lab, CITY UNIVERSITY OF HONG KONG, Dr. Kening Zhu <ul style="list-style-type: none"><li>&gt; In/Output device for HMD</li><li>&gt; CV-based acoustic classification for multi-gesture interaction on AR headset</li><li>&gt; Real-time implementation of gesture-based interaction on Low-cost VR head-mounted displays</li></ul> <div>Computer Vision   Accessibility   HCI   VR/AR</div> <div>Applied Research</div>  |
| Present<br>May 2021     | DEER Lab, CITY UNIVERSITY OF HONG KONG, Dr. ZhiCong Lu <ul style="list-style-type: none"><li>&gt; StoryChat, A narrative-based livestreaming chatroom for chat moderation</li><li>&gt; Video-based learning via augmented reality environment</li><li>&gt; Virtual Reality demonstration and interaction fire drill simulation</li><li>&gt; Scientist video analysis, understanding the factor behind videos</li></ul> <div>Live streaming   HCI   Virtual Reality   Computer Vision   Social Computing</div> <div>In progress<br/>In progress<br/>Applied Research</div> |
| Present<br>April 2021   | ERFI Lab, CITY UNIVERSITY OF HONG KONG, Dr. Can Liu <ul style="list-style-type: none"><li>&gt; Wizundry : A Cooperative Future Voice Interfaces with Multiple Wizards</li><li>&gt; Speech-related &amp; eye-tracking interface, HCI in the field of NLP</li><li>&gt; Gist based voice input interaction with re-speaking and summarizing technique</li><li>&gt; Eye-tracking system on analysis the cognitive load for multi-task speech composing</li></ul> <div>NLP   Speech Interaction   HCI</div> <div>In Submission</div>   |

## EXPERIENCE

Present	AI Research Intern, HUAWEI RESEARCH CENTER, Hong Kong	Applied Research organizer
May 2021	<ul style="list-style-type: none"><li>&gt; Lung Cancer Detection, CV, AI Explainability in pathology diagnosis</li><li>&gt; MindSpore Pathology Diagnosis AI Challenge</li><li>&gt; Online AI training, testing and evaluation platform</li><li>&gt; Speaker of Training AI Model on Huawei Cloud ModelArts AI Platform</li><li>&gt; Opening Speaker of Huawei AI challenge</li><li>&gt; Invited guest to Huawei Cloud Summit 2021</li></ul> <div>Computer Vision Deep Learning Explainable AI Full-Stack</div>	
October 2021	CTO, Co-Founder, OCEANVOICE, Hong Kong	
April 2021	We have developed a patented sensor for measuring dissolved oxygen in the ocean and used its fast and real-time nature to build AI network, which is dedicated to monitoring water quality in real time and predicting the health of the ocean within three months. <ul style="list-style-type: none"><li>&gt; 600,000 HKD funding from HK Government &amp; HKTech300 from CityU &amp; Hong Kong Science Park</li><li>&gt; Ocean water sensor &amp; Dissolved Oxygen prediction AI model</li><li>&gt; Machine-Learning based self-developed real-time classifier for ocean water health prediction</li></ul> <div>Machine Learning Chemistry Sensor AI network Full-Stack</div>	
May 2021	Full-Stack Intern, NETWORLDT TECHNOLOGY LIMITED, Hong Kong	
September 2020	I am part of a new team at Networld, nearD, a social networking site with a focus on privacy, multi-identity, and locality. <ul style="list-style-type: none"><li>&gt; Cross-platform user interface, data visualization in nearD admin panel</li><li>&gt; Several Campaign Websites built with Lederal and React</li><li>&gt; Docker, K8s containerized and auto deployment to Google Cloud</li><li>&gt; Server side network and API management and scaling</li><li>&gt; CI/CD and two-step authorization on IP network restriction</li></ul> <div>Cloud Elastic Search SQL Docker Python Selenium K8s React Native React Laravel PHP VueJs NodeJs Firebase Network Authentication</div>	

## SPEECH AND SEMINAR

Nov 2021	Leadership and Event Organizing Sharing, AWS HK Student Lead, AWS Ambassador Program Seminar
Sep 2021	Huawei Cloud AI Training and Evaluation, MindSpore Challenge Organizer, Huawei Cloud Summit
Nov 2020	Google Cloud Kubernetes deployment, Google DSC Lead, Google Devfest

## COMMUNITY LEADERSHIP

Organizer, Google Developers Group	Google Devfest, Google Cloud Summit, Google I/O Extend
Lead, Google Developers Student	Google DSC CityU, Google Solution Challenge
Lead, Microsoft Ambassador	Microsoft Learn Ambassador Medal, Azure workshops
Lead, AWS Educate Ambassador	Program Leader, AWS Cloud AI workshop, AWS leadership seminar
IEEE eta Kapa Nu	NCTU IEEE student chapter
Lead, CityU IT Team	Python workshops, Tech seminar and talks
Organizer, CityU Apps Lab	CityU EE, CS community organizer
Vice President, CS Student Chapter	Coding competition, CityU Hackathon and tech workshops

## ORGANIZER

- > CityHack 2018-21
- > MindSpore AI Challenge 2021
- > CityU AWSome Day 2020-21
- > Google Cloud Summit 2021
- > Python Workshop Series 2019

## VOLUNTEER

- > Stage actor - Mikado Children Theatre
- > Violinist - Taipei Hospital
- > International Volunteer - Thailand