

YANKUN ZHAO

Email & User ID: yzhaock@connect.ust.hk



EDUCATION

The Hong Kong University of Science and Technology

- Bachelor of Engineering in Computer Science
- Major CGA: 3.726/4.3, CGA: 3.653/4.3

Hong Kong
Sep. 2018 – Present

Nanyang Technological University

- Exchange Program
- CGA: 4.75/5

Singapore
Jun. 2019 – Aug. 2019

PUBLICATIONS

Understanding Distributed Tutorship in Online Language Tutoring

Meng Xia, **Yankun Zhao**, Mehmet Hamza Erol, Jihyeong Hong, Juho Kim

- Accepted as a full paper in the 12th International Conference on Learning Analytics and Knowledge (LAK '22)
- <https://arxiv.org/abs/2112.03500>

Student Barriers to Active Learning in Synchronous Online Classes: Characterization, Reflections, and Suggestions

Reza Hadi Mogavi, **Yankun Zhao**, Ehsan Ul Haq, Pan Hui, Xiaojuan Ma

- Accepted as a full paper in the Eighth ACM Conference on Learning at Scale (L@S '21)
- <https://dl.acm.org/doi/10.1145/3430895.3460126>

A Visualization System for Reflecting on English Speaking Progress under Distributed Tutorship

Meng Xia, **Yankun Zhao**, Jihyeong Hong, Mehmet Hamza Erol, Taewook Kim, Juho Kim

- Accepted as a poster in Korea Software Congress 2021 (A Korean flagship domestic conference)
- <https://docs.google.com/presentation/d/1hoQYhL77ioDocHLHp2r9YywMYAaK2brV2424KCvKfos/edit?usp=sharing>

RLens: A Computer-aided Visualization System for Supporting Reflection on Language Learning Progress under Distributed Tutorship

Meng Xia, **Yankun Zhao**, Jihyeong Hong, Mehmet Hamza Erol, Taewook Kim, Juho Kim

- In submission to the 25th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '22)

A Categorized Reflection Removal Dataset with Diverse Real-world Scenes

Chenyang Lei, Xuhua Huang, Chenyang Qi, **Yankun Zhao**, Wenxiu Sun, Qiong Yan, Qifeng Chen

- arXiv 2021
- <https://arxiv.org/abs/2108.03380>

PATENTS

Utilizing Tutor Feedback for Fine-grained Language Progress Reflection in Online English Tutoring via Interactive Visualization

Meng Xia, **Yankun Zhao**, Jihyeong Hong, Mehmet Hamza Erol, Juho Kim, Filed 2021

A Power Generation System Based on Bicycles

Yankun Zhao, Xiaoran Ma, Hengyu Zhao

- Utility Model Patent issued by China National Intellectual Property Administration
- Patent No. CN207234642U
- <https://patents.google.com/patent/CN207234642U/en> (Auto translated by Google)

SERVICES

CHI 2021 Late-Breaking Works

- Reviewer

RESEARCH EXPERIENCE

KAIST Interaction Lab (KIXLAB)

Jun. 2021 – Present

- Research Intern, supervised by Prof. Juho Kim
- Defined an emerging and trending educational model – online tutoring platforms employing “distributed tutorship”
- Analyzed 15,000+ learners’ data to identify major patterns of distributed tutorship and their relationship with language learning outcomes
- Designed and built a visualization system utilizing NLP techniques to support reflection on language learning progress under distributed tutorship
- Designed and conducted semi-structured interviews and survey studies with 500+ learners and 3 expert tutors
- Closely collaborated with an EdTech company, ran weekly meetings with the Head of PM-Product team

HCI Lab @ HKUST

Feb. 2020 – Jun. 2021

- Research Intern, supervised by Prof. Pan Hui and Prof. Xiaojuan Ma
- Harvested data from social media platforms, designed and conducted semi-structured interviews and survey studies with 32 students and 8 instructors from universities, conducted a thematic analysis of all the qualitative and quantitative data collected to characterize student barriers to active learning in synchronous online classes
- Proposed a framework providing a contemporary synthesis of student barriers to online active learning and conducted a summative study with 12 novice educators to evaluate the usefulness and effectiveness of the framework for course planning

Visual Intelligence Lab @ HKUST

Feb. 2021 – Aug. 2021

- Research Intern, supervised by Prof. Qifeng Chen
- Designed a backbone model for reflection removal
- Reviewed the literature on reflection removal
- Performed data cleansing and labeling

TEACHING EXPERIENCE

HKUST Doo2: Python for Everyone

Summer 2020

- Teaching Assistant
- Responsibilities: Designing and grading 4 assignments and the final project, answering students' in-class questions in the ZOOM chat box and after-class questions by email, checking attendance

HONORS & AWARDS

University Scholarship for Continuing Undergraduate Students, HKUST

Dec. 2021

- \$2K, a merit-based scholarship awarded to top 10% continuing undergraduate students at HKUST

University Scholarship, HKUST

Fall 2018, Winter 2018, Spring 2019, Summer 2019

- \$3K, merit-based admission scholarships for 4 semesters

Dean's List, HKUST

Spring 2020, Fall 2020, Spring 2021

The First Prize in the Second "Deng Feng" Cup Science and Technology Innovation Competition @ Tsinghua University

Aug. 2017

- Awarded to top 5% teams

The First Prize in Adolescents Science and Technology Innovation Contest

Apr. 2017

- Awarded by China Association for Science and Technology to top 3% teams

EXTRACURRICULAR ACTIVITIES

Hackathon @ HKUST 2019

Apr. 2019

- Mentor, Executive Technician
- Responsibilities: Helping teams with technical issues, helping participants form teams, managing competition logistics

Smart Car Workshop cum Team Challenging Competition

Nov. 2018

- Technical Assistant
- Responsibilities: Leading a visual programming workshop, helping teams with technical issues, managing competition logistics

Film Society @ HKUST

Aug. 2018 – Mar. 2019

- Executive Subcommittee
- Recruited more than 400 new members in collaboration with other subcommittees
- Designed and built a Harry Potter-themed escape room which attracted over 150 people to play within 8 hours

SKILLS

Programming Languages

- Python, C, C++, Java, JavaScript, R, MATLAB, Arduino

Machine Learning/Deep Learning

- PyTorch, TensorFlow, SciPy, Pandas, NumPy

Web Development

- HTML, CSS, JavaScript, jQuery, Bootstrap, React, Vue

Completion of Harvard University Non-Affiliate Protecting Human Research Participants (PHRP) Training

- Certified by Harvard University Area IRB

Completion of the Training Program in the 2020 Hong Kong Blockchain Olympiad

- Certified by International Blockchain Olympiad

A Go Player of 5 Dan Rank