

YUTONG ZHANG

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EDUCATION

University of Pittsburgh - School of Computing Information

Master of Information Science, GPA: 3.75/4.00

Pittsburgh, PA

Expected 2023

Sichuan University - School of Computer Science,

Bachelor of Engineering in Computer Science and Technology, GPA: 3.45/4.00

Chengdu, China

2016 - 2020

University of California, Berkeley,

Summer Session: Interdisciplinary Studies (Queer Theory; Technology and Society)

Berkeley, CA

Jul 2018 - Aug 2018

RESEARCH INTERESTS

Human-computer Interaction; Health Informatics

PUBLICATION

Investigating Resident and Attending Behaviors around Interruptions in the Emergency Department: An Observational Study

Yutong Zhang, Adam Frisch, Eliza Beth Littleton, Dmitriy Babichenko, Daqing He, Na Du

(Submitted to 2023 International Symposium on Human Factors and Ergonomics in Health Care)

RESEARCH EXPERIENCE

Emergent Human-machine Cooperation in Near-real Mixed-traffic Environments

Independent Study (Advisor: Dr. Na Du)

Oct 2022 - Present

Pittsburgh, PA

- Co-develop the experimental design and random scenarios.
- Design a survey using Qualtrics, perform data collection and data analysis.

Investigation of Interruption in Emergency Department

Independent Study (Advisor: Dr. Na Du)

Jan 2022 - Oct 2022

Pittsburgh, PA

- Conducted a 36-hour observational study in the Emergency Department at the University of Pittsburgh Medical Center Presbyterian.
- Standardized data from observation notes; analyzed, visualized data using statistical techniques.
- Interpreted data and compiled study results into a summary paper.

Modeling Situational Awareness in Automated Driving

Independent Study (Advisor: Dr. Na Du)

May 2022 - Sept 2022

Pittsburgh, PA

- Developed scenarios in Unreal Engine using Airsim to simulate the takeover tasks.

Musical Emotion Analysis with Recommendation - Most Innovative Application

Summer Workshop (Advisor: Dr. TEO Yong Meng)

Jul 2019

Singapore

- Co-established a cloud computing platform running deep learning tasks based on IBM cloud.
- Analyzed and visualized the emotions of the songs' lyrics using IBM Watson, echarts and D3, and implemented the data query optimization.

Transportation Videos Analysis based on OpenCV

Undergraduate Researcher (Advisor: Wei Xin)

Mar 2018 - Jun 2018

Chengdu, China

- Co-developed a transportation video analysis algorithm to improve the accuracy of vehicle recognition.
- Developed a sub-system to track and record data and display messages.

EXTRA-CURRICULAR ACTIVITIES

- Tutor: College Entrance Examination - Physics
- Reporter and editor of Youth of Sichuan University
- Co-director of Youth Volunteer Association of School of Computer Science at Sichuan University

HONORS AND AWARDS

- Outstanding Engineer Award of School of Computer Science, Sichuan University, 2020
- Second Prize Scholarship of School of Computer Science, Sichuan University, 2019

SKILLS

Languages	English(fluent); Mandarin(native);
Technical	Python, C++, R, Java, SPSS, Qualtrics, Unreal Engine