

ZHERAN XU

HCI Researcher interested in
Mixed Reality & Digital Heritage
Developer | UX Designer

CONTACT

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<https://github.com/QuinnXu>

TO LEARN AND CREATE, FOR A MEANINGFUL LIFE AND A BETTER WORLD.

EDUCATION

University of Nottingham

Sep. 2017 - Dec. 2018 UK



MSc. Human Computer Interaction

Dissertation: Interactive information visualization of house price with regional information.

Supervised by Dr. Ke Zhou

Tongji University

BEng. Computer Science

Sep. 2013 - Jun. 2017 China



Final Year Project: Non-cooperate Gaming behaviors on social network modeling.

Supervised by Prof. Jihong Guan

LANGUAGE

English (IELTS 7.0), Wu Chinese, Mandarin

SKILLS

Research Skills

Academic Writing, Survey, Interviews, Statistic Analysis, Experimental Research, Case Studies, Ethnography, Field Study, Usability Testing, Data Analysis with basic Machine Learning.

Coding & Design Skills

C/C++, C#, Python, JavaScript, HTML, CSS, SQL, R.

Raspberry Pi, Unity, Processing

Information Visualization, Front-end & Back-end development, Data crawling and manipulating, GUI Application development, Photogrammetry, Automation.

User-Centered Design process, Rapid Prototyping, Storyboard, Design Thinking, Critical Design.

WORK EXPERIENCE

Siemens Healthineers

R&D Engineer | Mar. 2020 - Present



- Designing and prototyping an eye-tracking equipment for hand-free image processing for surgery on Hackathon.
- Pioneers in Digital Community, held and organized Digital Day Event.
- Using C# for auto test engineering and internal tools development, occasionally conducted Usability testing.

Tongji-MIT City Science Lab

HCI Researcher | Jul. 2019 - Dec. 2019



同济大学设计创意学院
College of Design and Innovation
Tongji University

- Worked at Center of Digital Innovation Lab as research intern.
- Designed and prototyping new version CityScope, which is dedicated to solving spatial design and urban planning challenges by MIT Media Lab
- Conducted user evaluation for HMI of Autonomous Driving.

PROJECTS

Contactless Spot Adaptor

- Honorably awarded 1st Place at Siemens Healthineers Hackathon 2020
- Implemented Tobii eye-tracking device with ROI based dose image regulation & processing. This solution provides a hand free interaction method for surgeons to operate in an aseptic environment.
- Built upon Unity engine with Tobii SDK, developed in C# for abstaining eye-gaze point and back-end communication, using Python for image processing and realtime visualization.

Living Memories Digital Museum (Ongoing)

- The ultimate vision is to create an open-source database for public and government to collect data correlated to locations by creating POI at an GIS platform in an crowdsourcing method. And using digital tech to represent or reconstruct.
- Prototyping interactive storytelling on a website, which is adapted from a themed exhibition Zhoushan Museum.
- Conducting investigation and collecting feedback from potential audience from all range of ages. Results show prefer novel digital content is more attractive than static format or 360VR museum.

CityScope 2.0

- Conceptualized and designed an upgraded version of tangible & digital platform embedded with augmented reality and multiuser interactions base on CityScope.
- Developed and deployed prototype on a touchscreen desk, a info-viz screen and AR mobile device with synchronization.