

YU Shiqi

shiqiyu1412@gmail.com
https://www.yu-shiqi.com/
linkedin.com/in/shiqiyu1412

EDUCATION

Northeastern University

Boston, USA

PhD Student in Interdisciplinary Design and Media

Sep. 2024 -

- Research: Human-computer interaction (HCI), Extended reality (XR)
- Advise by: Wallages Lages in Reality Design Studio

University of Edinburgh

Edinburgh, UK

M.S. in Design Informatics - School of Informatics

Sep. 2021 - Nov. 2022

- Research: Human-computer interaction (HCI), Extended reality (XR), Data Visualization.
- Thesis: An Immersive 3D Visualization of Medical Data in HoloViz Office Advise by Benjamin Bach

Beijing Language and Culture University

Beijing, China

B.ENG in Digital Media Technology- School of Information Science

Sep. 2017 - Jul. 2021

PROFESSIONAL EXPERIENCE & RESPONSIBILITIES

Cranfield University

Bedford, UK

Research Fellow in XR- School of Aerospace, Transport and Manufacturing

Apr. 2024 - Aug. 2024

- Conducting XR research within a portfolio of projects.
- Produce high-quality publications and reports on XR research findings.
- Manage project components and liaise with industrial partners.
- Engage in proposal development for new research initiatives.
- Support the academic development of students through supervision and teaching.

University of Greenwich

London, UK

XR Software Developer - School of Computing and Mathematical Sciences

Apr. 2023 - Apr. 2024

- Participation in the Social and Human Centered XR (SUN) project, a European Union-funded project that aims to integrate the physical and virtual worlds through XR.
- Develop a testbed for conducting cyberattacks on XR.
- Develop an intrusion detection mechanism that can detect cyber threats to XR.

RESEARCH

DEBUT WM - Digitally Enhanced Battery Ubiquitous Training

Bedford, UK

Research Fellow in XR

Apr. 2024 - Aug. 2024

- Provide VR training solutions for battery manufacturing in the automotive industry, as part of Innovate UK's Faraday Battery Challenge. (Pico, Unity3D)

XR Security Testbed: Crafting Attack Scenarios for Privacy Protection

London, UK

XR Software Developer & Research Team Lead

Apr. 2023 - Apr. 2024

- Pioneered an XR security testbed to address the need for privacy threat research in XR. Utilized the platform to demonstrate and analyze four significant privacy attacks, showcasing the testbed's capabilities for developing and testing security measures. (Oculus Quest, HoloLens, Unity3D)

An Immersive 3D Visualization of Medical Data in HoloViz Office

Edinburgh, UK

Developer

Jan. 2022 - Aug. 2022

- Demonstration of the functionality of the interactive workspace by displaying medical 3D data in the HoloViz Office. (HoloLens, Magic Leap, Unity3D)
- Postgraduate thesis supervised by Dr. *Benjamin Bach*

Text-based Dynamic Video Generation for Virtual Reality Scenes

Edinburgh, UK

Developer

Jan. 2022 - Apr. 2022

- Developed 'TIV' (Text-Image-Video), a framework for converting text descriptions into dynamic VR scene videos, enhancing immersive virtual experiences. (TensorFlow)

Virtual Reality (VR) for Nutritional Awareness Research Project

Edinburgh, UK

Lead Researcher & Developer

Jan. 2022 - Apr. 2022

- Orchestrated the research and development of an immersive virtual reality application, known as *FALLING MANNA*, designed to enhance dietary self-tracking and engage users with Scottish food culture. (Oculus Rift, Unity3D)

HCI Research for Health Services Data Management

Edinburgh, UK

Developer

Jan. 2022 - Apr. 2022

- Developed a sophisticated Student Health Services Data Management application, advancing data security and user interaction paradigms within the healthcare education sector.

Accessibility-Oriented Cartography Research with PATTERNMAP

Edinburgh, UK

Developer

Sep. 2021 - Dec. 2021

- Pioneered accessibility research and developed *PATTERNMAP*, a web platform that employs colorblind-friendly design, leveraging *Google Earth Engine* and *EarthBlox* for secure and inclusive geospatial data representation.

HCI-Driven Post-traumatic stress disorder (PTSD) Therapy Innovation

Edinburgh, UK

Developer

Sep. 2021 - Dec. 2021

- Spearheaded an HCI-focused research initiative to create *Dream Controller*, a conceptual therapeutic aid designed to ameliorate sleep disturbances in PTSD patients. Emphasized rigorous research methodologies to inform product design, emphasizing empathetic user engagement and secure, private data protocols.

MISCELLANEOUS

- **Domains Covered:** - XR & Machine learning & Game development (project experience); 3D animation production (modeling experience); Video and image processing (simple project experience)
- **Programming** - Project experience in Python (moderate) & C# (moderate); C/C++ (basic)
- **IT Skills:** - Unity3D (proficient) & 3ds Max (moderate, project experience); Adobe After Effects & Adobe Audition (average); MATLAB (basic)
- **Language** - English (fluent); Mandarin (native)