Yixiao Kang

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EDUCATION

Shanghai Jiao Tong University, China

2019/09-2023/07(Expected)

Bachelor of Engineering in Software Engineering

Junior Year Cumulative GPA: 4.0 / 4.0

Computer Graphics	98	Architecture of Enterprise Applications	94
Data Structures	94	Software Engineering Principles and Practice	93
Computer Systems Engineering	90	Discrete Mathematics	90

University of Novi Sad, Serbia

Summer Exchange Program   2019/07

RESEARCH EXPERIENCE

Shaping the Connected Museum, a joint program by the University of Nottingham and Shanghai Jiao Tong University

Research Assistant   2021/06 – 2021/09

Advisor: Steve Benford, Professor of Computer Science, University of Nottingham

- ➤ Developed and deployed an augmented reality application to create tangible personalized souvenirs for interactive learning at the Shanghai Science and Technology Museum
- ➤ Adopted and evaluated multiple interaction methods, including mobile interface, hand gestures and voices.
- ➤ Conducted user research on increasing personalization of exhibition experience through AR.

Smart Display Lab (SDL) at Shanghai Jiao Tong University, Shanghai, China

Research Assistant   2019/11 – 2021/06

Advisor: Chao Ping Chen, Associate Professor of Computer Science, Shanghai Jiao Tong University

- ➤ Developed a framework for 3D AR navigation, mapping and target detection
- ➤ Processed time-series data from LiDAR Scanner with unsupervised deep neural network
- ➤ Built indoor 3D map by applying Delaunay triangulation to the point cloud

Digital ART Laboratory (DAL) of Shanghai Jiao Tong University Shanghai, China

Research Assistant   2021/06 –now

Advisor: Xubo Yang, Professor of Computer Science, Shanghai Jiao Tong University

- ➤ Created an AR virtual experiment application with unity
- ➤ Simulated convex lens imaging and performed real-time calculation of results based on user parameters
- ➤ Visualized abstract concepts in experiments like optical paths and molecular models.

PUBLICATIONS

- ➤ Simultaneous Tracking, Tagging and Mapping for Augmented Reality, presented at 5th International Conference on Display Technology Conference, Vol. 52, pp. 31-33 (1st Author)
- ➤ Retargeting Destinations of Passive Props for Enhancing Haptic Feedback in Virtual Reality, accepted by IEEE conference on virtual reality, 2022 (2nd Author)
- ➤ Tie memories to e-souvenirs: personalized souvenirs with augmented reality for interactive learning in the museum, in preparation for the 8th International Conference on Virtual Reality (IEEE ICVR), 2022 (1st Author)

HONORS & AWARDS

- ➤ Presentation at International Conference on Display Technology (ICDT 2021)   2021/06
- ➤ 2021 Huawei Scholarship (Top 5%)   2021/12

	2021/06
➢ Gold Prize of China Collegiate Algorithm Design & Programming Challenge Contest	2021/06
➢ 2020 Interdisciplinary Contest in Modeling- Meritorious Winner	2020/04
➢ Second Prize of China Digital Media Technology and Creativity Competition	2021/12

LEADERSHIP AND ACTIVITIES

Volunteer at EXIT, largest music festival in Europe, Novi Sad, Serbia   2019/07
- ➢ Tuned the sound system and multiple instruments for the performance as a stage assistant
- ➢ Informed artists of performance time and maintained backstage order

Master Distinguished Lecture Host Group, Shanghai, China   Chair, 2020/11 – now
- ➢ Hosted major events in SJTU, including TED and academic lectures
- ➢ Recruited and trained members of the host group

Designer of China International Import Expo, Shanghai, China   2020/12
- ➢ China International Import Expo volunteer certificate designer

SKILLS

- ➢ Programming: Competent in C, C++, C#, Python, Java, JavaScript, HTML, Swift, SQL, Matlab. Proficient in unity, OpenGL, ARKit and AR Foundation, React, SpringBoot, Mysql, MongoDB, Redis, Docker, Tensorflow, IOS and Android development
- ➢ Languages: Chinese (native); English (proficient)