YUNSHU WANG

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EDUCATION

Doctor of Philosophy in Computer Science and Engineering

Sept. 2021 - Dec. 2023

University of California, Riverside, Riverside, CA

- Thesis: Title Not Confirmed
- Cumulative GPA 3.61/4.0

Master of Science in Computer Science

Aug. 2019 - May 2021

The University of Mississippi, Oxford, MS

- Thesis: A Novel Approach Toward High Accuracy Indoor Localization
- Cumulative GPA 3.95/4.0
- Chancellor's Honor Roll

Bachelor of Science in Computer Science

Aug. 2016 - May 2019

The University of Mississippi, Oxford, MS

- Cumulative GPA 3.80/4.0
- Chancellor's Honor Roll

Bachelor of Science in Computer Science

Aug. 2014 - May 2016

North China University of Technology, Beijing

Cumulative GPA 4.0/4.0

PUBLICATIONS

- C.1 The World is Too Big to Download: 3D Model Retrieval for World-Scale Augmented Reality Yi-Zhen Tsai, James Luo, Yunshu Wang, Jiasi Chen ACM MMsys 2023 (Best student paper award)
- C.2 SLAM-Share: Visual Simultaneous Localization and Mapping for Real-time Multi-user Augmented Reality Aditya Dhakal, Xukan Ran, Yunshu Wang, Jiasi Chen, K. K. Ramakrishnan ACM CoNEXT 2022
- C.3 Testbed development for a novel approach towards high accuracy indoor localization with smartphones Yunshu Wang, Lee Easson, Feng Wang ACM SE 2021

Another Paper:

Yi-Zhen Tsai, **Yunshu Wang**, Jiasi Chen

Some Conference 2023

PROJECTS

The World is Too Big to Download: 3D Model Retrieval for World-Scale Augmented Reality

UCR Department of Computer Science and Engineering, Riverside

• Executed precise data collection and efficient data processing, ensuring accuracy and relevance for analysis

SLAM-Share: Visual Simultaneous Localization and Mapping for Real-time Multi-user Augmented Reality

UCR Department of Computer Science and Engineering, Riverside

- Designed and developed a pioneering multi-user Simultaneous Localization and Mapping (SLAM) prototype by enhancing ORBSLAM3. Facilitates collaborative map building and unified real-time mapping.
- Conducted comprehensive latency and accuracy assessments, comparing prototype performance to SLAM-Share, while
 also contributing significantly to the manuscript by detailing baseline model intricacies and generating illustrative plots
 using draw.io software

Testbed development for a novel approach towards high accuracy indoor localization with smartphones

Olemiss Department of Computer and Information Science, Oxford

- Led the end-to-end design, construction, and rigorous testing of an innovative testbed for 3D indoor localization via smartphone-based pedestrian dead reckoning. Seamlessly integrated Android applications in Java, Firebase databases, and a Python-backed server to facilitate comprehensive indoor positioning capabilities
- Leveraged machine learning methodologies to enhance accuracy by 85%, resulting in a notable achievement of up to 97.9% accuracy

Create Consistent-focused Network for Augmented Reality Challenges

UCR Department of Computer Science and Engineering, Riverside

• Tailored the "MicroRaft" Java project for Android compatibility, resulting in a consistency-focused network that enables reliable communication among multiple cell phones

Another Project: Title not confirmed

WORK EXPERIENCE

Intermediate Data Structures and Algorithms Graduate Teaching Assistant

Jan. - Mar. 2023

University of California, Riverside, Riverside, CA

Instructor: Dr. Mingxun Wang, PhD, MS, Dr. Amr Magdy, PhD.

- Mobilized student learning motivation and academic performance during self-designed extracurricular activities about dynamic programming algorithms and data structures
- Improved objectives evaluation consistency by coordinating instructing and grading team of 12
- Piloted adaptive instruction method by cooperating with instructor and monitoring student performance

Graduate Data Analysis and Programming Teaching Assistant

Aug. 2019 - May 2021

The University of Mississippi, Oxford, MS

Instructors: Dr. Yixin Chen, PhD, MS, B.S., Dr. Dawn E. Wilkins, Professor and Chair

- ♦ CSci 502: Fundamental Concepts in Algorithms
- CSci 450: Organization of Programming Languages
- ♦ CSci 433: Algorithm and Data Structure Analysis
- ♦ CSci 390: Special Topics in Programming
- ♦ CSci 311: Models of Computation
 - Co-instructed intermediate and advanced level computer science lectures for 4 semesters
 - Propelled individual sessions to enhance students' mastery of intricate algorithmic concepts

· Directed regular gradings and bonus credit offers based on beyond-expectation achievements

Undergraduate Teaching Assistant

Feb. 2018 - May 2019

The University of Mississippi, Oxford, MS

Instructors: Mr. Joseph Carlisle, MS, BS, Dr. Philip J. Rhodes, PhD., Mrs. Hui Xiong, MS, BS.

- ♦ CSci 490: Special Topics in Programming Analysis
- CSci 211: Computer Science III (Advanced Java)
- ♦ CSci 112: Computer Science II (Intermediate Java)
- CSci 111: Computer Science I (Elementary Java)
 - Precepted around 40 undergraduate students per semester by offering structural supports to improve students' confidence and competence
 - Spearheaded student-centered help sessions by designing hint-like practices and inspiring self-learning
 - Collaborated with courses instructors to provides students with constructive feedback and productive learning experience

Community Assistant Jul. 2017 - May 2018

The University of Mississippi, Oxford, MS

- Personized assistance based on residents' personal and academic needs
- Oversaw Code of Conduct, managed administrative duties and resolved group conflicts
- Drove engaging events and fostered a cooperative and inclusive living environment

LEADERSHIP

President Aug. 2017 - Oct. 2018

Friendship Association of Chinese Students and Scholars, Oxford, MS

- Directed Fund Applications and Sponsor Advertisement
- Designed event flows and arranged shows for each activity
- Contacted International Student Office for detailed operational guide
- Delegated purchasing, publicity, and website management to other staff members

Chief Officer

International & American Student Alliance, Oxford, MS

- Coordinated cultural events and activities to foster a diverse and inclusive environment
- Organized workshops on cultural exchange, enhancing intercultural awareness among students
- · Assisted in planning and executing international student orientation programs
- Supported initiatives to celebrate international holidays and traditions on campus

AWARDS

University of California, Riverside, Riverside, CA

- Graduate Fellowship NRT
 Sept. 2021
- STIPEND Dept Award Sept. 2021
- Graduate Fellowship Sept. 2021

The University of Mississippi, Oxford, MS

Magna Cum Laude	May 2019
International Undergraduate Student Scholarship	Aug. 2017
 Community Assistant of the Year, University of Mississippi (UM) 	May 2018
North China University of Technology, Shijingshan, Beijing	
National Scholarship for Exchange Student	Aug. 2016
Merit Student of Reijing	May 201