

MOLOUD NASIRI

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EDUCATION

Ph.D., Human-Centered Computing

Jan. 2019 – August 2023

Clemson University, Clemson, USA

- Dissertation Title: The Effect of Prior Virtual Reality Experience on Locomotion and Navigation in Virtual Environments
Supervisor: Dr. Andrew Robb
- Selected Courses: Human and Computer Interaction, Measurement and Evaluation Methods, Virtual Reality Systems, Tangible and Embodied Interactions

Certificate of Engineering and Science Education Aug.

2018 – May 2020

Clemson University, Clemson, USA

- Selected Courses: Teaching Undergraduate Engineering and Science, Research Methods, Preparing for the Profes-soriate

Master of Science, Computer

Science Aug. 2016 – Dec. 2019

Clemson University, Clemson, USA

- Selected Courses: Applied Data Science, Data Mining, 3D Game Development

Master of Science, Computer Engineering, Computer Architecture Dec.

2012 – May 2014

Qazvin University

- Thesis Title: Design of a Serial Adder for Ternary Logic Based on Carbon Nanotube FETs
Supervisor: Dr. Mohammad Hossein Moaiyeri
- Selected Courses: VLSI Systems, Low Power Circuit Design, Advanced Computer Architecture

Associate of Arts, Interior

Design Sep. 2013 – Nov. 2015

University of Tehran

- Selected Courses: Architectural Plans and Maquettes, Sketching, 3D Modeling

Bachelor of Science, Computer

Engineering Sep. 2006 – Dec. 2010

Tehran Azad University

- Thesis Title: Service-Oriented Architecture
Supervisor: Dr. Abdollah Shahidi
- Selected Courses: Data Structures, Algorithms, Operating Systems, Artificial Intelligence

RESEARCH EXPERIENCE

Assistant Professor

[Department of Mathematics and Computer Science](#) 2024

– Present

Converse University, Spartanburg, SC

- Research Interests: Human-Computer Interaction, Mixed Reality, and User Research

Visiting Assistant Professor

[Department of Computer Science](#)

2023 – 2024

Florida Polytechnic University, Lakeland, FL

- Research Interests: Human-Computer Interaction, Virtual Reality, and User Research

Graduate Research Assistant [Virtual Environments lab \(VE LAB\)](#) 2019 – 2023

Clemson University, Clemson, SC

(Achieved skills in Developing VR environments by Unity, Running Experiments Associated With Unity and VR Systems, Collecting Data by Observation and Interviews, and Analyzing Collected Data, Using HTC Vive and Oculus Quest Headsets to Run Experiments and Observations)

PROJECTS:

- **Changes in Navigation Over Time: A Comparison of Teleportation and Joystick-based Locomotion**
A study to discover how people's perceptions and actions in Virtual Reality change by VR experience. This study reports the results of an experiment investigating how users' behavior with teleportation and joystick-based locomotion methods changed over four weeks.

- **Gait Differences in the Real World and Virtual Reality: The Effect of Prior Virtual Reality Experience**

Exploring research questions such as 1) how different walking in a virtual environment is from walking in real space, and 2) how novice and experienced VR users experience walking in VR space. This ongoing project is a mixed study design with two factors: walking in real or virtual worlds (within-subject) and level of prior VR experience (between-subject).

- **Effect of Texture on The Perception of Axis of Rotation of Pivot Doors**

Investigation of the optical information available to detect the position of the axis of rotation of rectangular panels. In two desktop-based experiments and one immersive virtual reality-based experiment, participants indicated the location of the pivot axis of a rotating panel as quickly and accurately as possible. Factors like texture on the panel, texture on the background, the position of the axis of rotation, and linear velocity of the farthest edge from the pivot axis were manipulated.

- **Evaluating the Near-field Size Perception of Tangibles in VR**

To understand the effects of sensory information channels in the near field size perception of tangibles of graspable sizes in IVEs, we conducted a between-subjects study evaluating the accuracy of size perception across three experimental conditions (Vision-only, Haptics-only, Vision, and Haptics).

- **Calibration to Varying Amounts of Visual Feedback in a Basketball Shooting Task**

Developing an interactive basketball shooting task in a virtual environment, where individuals will shoot virtual basketballs into a virtual basketball hoop. While engaged in this basketball shooting task, individuals will experience different levels of visual feedback regarding the accuracy of their shots.

Graduate Research Assistant

[Tangible Visualization Lab \(HCC-TANGVIZ LAB\)](#)

2017 – 2019

Clemson University, Clemson, SC

(Achieved skills in 3D Modeling Using 3D Max, Rhino, and Meshmixer— Prototyping and Manufacturing— 3D Printing: With Conductive and Non-Conductive Filaments, Two Different Types of Filaments, and 3D Printing on Fabric— Laser Cutting/Engraving — Directing Undergraduate Students)

PROJECT:

- **MRI: Development of Enodia: a Highly Reconfigurable Instrument for Collaborative Interactive Visualization**

Designing a novel collaborative visualization instrument is highly reconfigurable in several key respects. Enodia is designed for intensive research engagement with screen-mediated content, especially for collaboration and communication-oriented research activities.

Graduate Research Assistant

Nanotechnology and Quantum Computing Lab

2013 – 2015

Shahid Beheshti University

(Achieved skills in Circuit Design: VHDL and Verilog— Conducting Simulations: HSPICE)

PROJECTS:

- An Efficient Ternary Serial Adder Based on Carbon Nanotube FETs

Designing an efficient ternary serial adder for nanotechnology employing negative, positive, and standard ternary logic. Multiple-valued logic results in chips with more density, less complexity, and high-bandwidth data transfer.

- An Efficient Analog-to-Digital Converter Based on Carbon Nanotube FETs

This study presents an efficient CNTFET-based fast analog-to-digital converter suitable for low-power, mixed-signal integrated circuits and embedded systems.

TEACHING EXPERIENCE

Assistant Professor

Department of Mathematics and Computer Science 2024

– Present

Converse University, Spartanburg, SC

- Teaching Python Programming and Web Application

Visiting Assistant Professor

Department of Computer Science

Aug. 2023 – Jul. 2024

Florida Polytechnic University, Lakeland, FL

- Teaching Operating Systems, Object-Oriented Programming, and Artificial Intelligence

Graduate Teaching Assistant

School of Computing

Aug. 2016 – May 2023

Clemson University, Clemson, SC

- Problem Solving and Program Development using C++, Discrete Structures, Machine Learning, and Tangible and Embodied Interaction

Graduate Lab Assistant

School of Computing Aug.

2016 – Aug. 2019

Clemson University, Clemson, SC

- C Programming Laboratory

Writing Across Curriculum Graduate Fellow Pearce

Center for Professional Communication

Dec. 2018 – Dec. 2019

Clemson University, Clemson, SC

Lecturer

Electrical and Computer Engineering Department Sep.

2015 – Aug. 2016

Taha Institute Of Higher Education, Tehran

- C Programming, Computer Architecture, and Logical Circuits

Teacher and Adviser

Amouzesh Educative Center

Sep. 2007 – Jun. 2009

Tehran

- Teaching mathematics, advising college students, and mock exams preparation

PUBLICATIONS

- Nasiri, M, Robb, A., How do aftereffects of walking in VR change by VR experience over time?, IEEE Conference on Virtual Reality and 3D User Interfaces, Submitted
- Nasiri, M, Robb, A., Porter, J., Kohm, K., 2023, Changes in Navigation Over Time: A Comparison of Teleportation and Joystick-based Locomotion. ACM Transactions on Applied Perception
- Nasiri, M, Anaraky, R.G., Babu, S.B., Robb, A., Gait Differences in the Real World and Virtual Reality: The Effect of Prior Virtual Reality Experience. IEEE International Symposium on Mixed and Augmented Reality (ISMAR). October 17-21, 2022, Singapore
- Raveendranath, B., Pagano, C., Nasiri, M. Babu, S.B, , 2021. Effect of Texture on The Perception of Axis of Rotation of Pivot Doors. Journal of Vision, 21(9), pp.2405-2405.
- Siqueira, A.G., Venkatakrishnan, R., Venkatakrishnan, R., Bhargava, A., Lucaites, K., Solini, H., Nasiri, M., Robb, A., Pagano, C., Ullmer, B., Babu, S.B., 2021. Empirically Evaluating the Effects of Perceptual Information Channels on Size Perception of Tangibles in Near-feld Virtual Reality. 2021 IEEE Conference on Virtual Reality and 3D User Interfaces (VR). March 27-April 3, 2021, Lisbon, Portugal
- Nasiri, M., 2021. [Doctoral Consortium] Gait Differences in the Real World and Virtual Reality: The Effect of Prior Virtual Reality Experience. 2021 IEEE Conference on Virtual Reality and 3D User Interfaces (VR). March 27-April 3, 2021, Lisbon, Portugal
- Anaraky, R.G., Bahirat, P., Nasiri, M., Page, X., Knijnenburg, B.P. and Duchowski, A.T., 2020. Effect of Priming on Smart Home Privacy Preferences. USENIX Symposium on Usable Privacy and Security (SOUPS). August 911, 2020, Boston, MA, USA
- Nasiri, M. and Ullmer, B., 2019. The Communication Die. Graduate Research And Discovery Symposium (GRADS). Clemson, SC, USA
- Moaiyeri, M.H., Nasiri, M. and Khastoo, N., 2016. An Efcient Ternary Serial Adder Based on Carbon Nanotube FETs. Engineering Science and Technology, an International Journal, 19(1), pp.271-278.
- Moaiyeri, M.H., Khastoo, Nasiri, M., Navi, K. and Bagherzadeh, N., 2016. An Efcient Analog-to-Digital Converter Based on Carbon Nanotube FETs. Journal of Low Power Electronics, 12(2), pp.150-157.

PRESENTATIONS, CONFERENCES, AND EVENTS ATTENDED

- ACM Symposium on Applied Perception (SAP) August 2023, Los Angeles, California, Presented: Changes in Navigation Over Time: A Comparison of Teleportation and Joystick-based Locomotion.
- Graduate Teaching Institute (GTI) Workshop December 2022, Clemson, SC
- IEEE International Symposium on Mixed and Augmented Reality (ISMAR) October 2022, Singapore, Presented: Gait Differences in the Real World and Virtual Reality: The Effect of Prior Virtual Reality Experience.
- IEEE Virtual Reality (VR) Conference March 2021, Lisbon, Portugal, DC Paper Presentation: The Effect of Prior Virtual Reality Experience on walking in IVEs
- Women Engineering (WE) 20 Annual Conference 2020, Online
- Adobe MAX The Creativity Conference 2020, Online
- Unity for Humanity Summit 2020, Online
- Virtual Grace Hopper Celebration 2020
- ACM Symposium on Applied Perception 2020 conference (SAP) 2020, Online
- ACM Richard Tapia Celebration of Diversity in Computing Conference, September 2020, Online, Pre-sented: Gait Differences in the Real World and Virtual Reality: The Effect of Prior Virtual Reality Experience.
- IEEE Virtual Reality(VR) Conference 2020, Atlanta, GA
- Graduate Research And Discovery Symposium (GRADS) November 2018, Clemson, SC, Presented: The Communication Die.
- Southeastern Human Factors Applied Research Conference (SHARC) 2018, Clemson, SC

SKILLS

- VR Development: Unity, Rhino, SketchUp, 3D MAX
- Programming Languages: C/C++, C#, Python, R Studio, HTML, CSS, VHDL, Verilog

- Research: Qualitative and Quantitative Research, Study Design, Statistics, Technical Writing
- Technology: 3D Printing, Laser Cutting/Engraving

LEADERSHIP AND SERVICE

- Senator in the graduate student government (GSG) of Clemson University (2020-2022)
- Member of graduate travel grant (GTG) committee, responsible for funding graduate students travels at Clemson University (2020-2021)
- Certified as a leader student, Participated and certified in a ten-week certified student leader program presented by Clemson University (2020)
- CZAR at VE lab to help organization and safety in the VE Group lab at School of Computing, Clemson University (2018- 2021)
- Member of Association of Computing Machinery (ACM) (2020-2021)
- Member of Association of Computing Machinery-Women (ACM-w) (2019-2021)
- Member of Clemson International Students Organization (2017-2020)