Soheil Sepahyar, Ph.D.

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Summary

Dynamic Computer Science Ph.D. with expertise in VR, AR, Computer Graphics, and HCI. Proficient in C++, Python, C#, Unity, and OpenGL. Proven track record in VR development, data analysis, and graphical systems design. Acclaimed for research in distance perception and AI in automated driving systems. Effective communicator and educator at UMass Boston. Also, I am a green card holder and do not need any sponsorship.

Technical Skills

- **Languages:** C++, Python, C#
- **Technologies:** OpenGL, GLSL, Unity, Autodesk Maya
- **Platforms:** Unix, Linux, Windows

Experience

Lecturer in Computer Science
University of Massachusetts Boston *Jan 2024 - Present*

- Teaching Courses:CS420, CS110, CS410, CS450, CS220, CS210, CS240,
- Developed course materials and assessments
- Guided student projects and research

PhD VR Researcher
Michigan Technological University *Jan 2019 - Dec 2023*

- Developed VR applications using Unity and C#
- Implemented Python scripts for data analysis
- Utilized OpenGL and GLSL for coding in C and C++
- Conducted user studies on distance perception in VR

Internships at Visteon *Summers 2022, 2021 and 2020*

- **Product Design Lead Intern:** Led hardware and software teams, developed testing software, analyzed production data
- **AI/ML Engineer Intern:** Developed driver monitoring systems, utilized deep learning for head position and vehicle dynamics Monitoring Systems
- **ADAS Engineer Intern:** Developed ADAS software, employed CNNs for depth perception

Teaching Assistant & Lab Instructor
Michigan Technological University *Jan 2019 - Dec 2023*

- Taught and graded courses: Computer Graphics, Data Structures, Computer Organization
- Assisted in lab sessions, provided student support

Education

PhD in Computer Science
Michigan Technological University *GPA: 3.71/4.0*
Jan 2019 - Dec 2023
PhD Thesis: link

Master's in Computer Science
Michigan Technological University *GPA: 3.7/4.0*
Jan 2019 - Apr 2022

BS in Computer Software Engineering
Islamic Azad University Central Tehran *GPA: 3.74/4.0*
Sep 2014 - Jul 2018

Publications

1. VR Distance Judgments (SAP 22) link
2. Brightness on Distance Judgments (SAP 2020) link
3. Sorting Algorithms Comparison (ACAI 2019) link

Awards

- Business Opportunity Recognition Certificate, VRSPACE
- Finishing Fellowship Grant Award, Michigan Tech (Summer 2023)

Reviewer

- Program Committee for ACM SAP 2025 Conference
- IEEE VR 2023, 2024, 2025
- VRST 2023, 2024