

Omar Khan

omar.khan2@ucalgary.ca | <https://okhan.me> | [Google Scholar](#) | [GitHub](#)

About Me

I am a 4th year honours Bachelor of Science student in Computer Science at the University of Calgary. I am also a research assistant with [Dr. Kangsoo Kim](#) in the [Human-X-Interaction Lab](#). I work on projects in Extended Reality (XR), Virtual Agents/Avatars, and more generally, Human-Computer Interaction (HCI).

Education

09/2021 – 05/2025 **University of Calgary**
Bachelor of Science (Honours) – Computer Science
GPA: 3.82 / 4.00
Higher level courses in Computer Graphics and Human-Computer Interaction

Publications

Workshop Papers

1. **Omar Khan**, Zaid Ahmed, Hyeongil Nam, Kangsoo Kim. "TangibleMoments: Embedding XR Memories onto Physical Objects". *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)*, Saint-Malo, France, 2025, pp. 1142-1146.
<https://www.doi.org/10.1109/VRW66409.2025.00227>
2. **Omar Khan**, Anh Nguyen, Hyeongil Nam, Kangsoo Kim. "Investigating Visual Guide Cues in VR: Impacts of Virtual Humans and Symbol-Based Navigation on Real-World Performance and Experience". *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)*, Saint-Malo, France, 2025, pp. 504-509.
<https://www.doi.org/10.1109/VRW66409.2025.00110>

Posters

1. **Omar Khan**, Zaid Ahmed, Hyeongil Nam, Kangsoo Kim. "‘I look like a gorilla, but don’t move like one!’: Impact of Avatar-Locomotion Congruence in Virtual Reality". *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)*, Saint-Malo, France, 2025, pp. 1202-1203.
<https://www.doi.org/10.1109/VRW66409.2025.00247>
2. **Omar Khan**, Anh Nguyen, Michael Francis, Kangsoo Kim. "Exploring the Impact of Virtual Human and Symbol-Based Guide Cues in Immersive VR on Real-World Navigation Experience". *2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)*, Orlando, FL, USA, 2024, pp. 883-884.
<https://www.doi.org/10.1109/VRW62533.2024.00238>

Research Assistantships

01/2023 – 08/2025 **Human-X-Interaction Lab**, University of Calgary
Supervisor: **Dr. Kangsoo Kim**

Awards

- 2025 University of Calgary, IDEAS Fund - \$1352
- 2024 UCalgary Students' Union, Undergraduate Research Symposium Faculty of Science Award - \$1000
- 2024 Jason Lang Scholarship - \$1000
- 2024 UCalgary Students' Union, SUPERWork Award - \$1000
- 2024 Alberta Innovates, Summer Research Studentship Award - \$7500
- 2024 University of Calgary, Graeme Bell Travel Award - \$1350
- 2023 NSERC, Undergraduate Student Research Award - \$7500
- 2023 Jason Lang Scholarship - \$1000
- 2022 Jason Lang Scholarship - \$1000
- 2021 Alexander Rutherford Scholarship - \$2500

Skills

- | | |
|---|---|
| XR development with Unity3D | Math (calculus, linear algebra, statistics) |
| Quantitative and qualitative user studies | Computer graphics |
| Virtual agents and avatars | Ethics |
| Programming (C#, C++, Python, JavaScript, Java) | Strong written and oral communication |