

# Omar Khan

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## About Me

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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

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09/2021 – 04/2025      **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

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### 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
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

### 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
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

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09/2024 – 04/2025      **Human-X-Interaction Lab** and **SeriousXR Lab**, University of Calgary  
Supervisors: **Dr. Kangsoo Kim** and **Dr. Frank Maurer**

01/2023 – 08/2024      **Human-X-Interaction Lab**, University of Calgary  
Supervisor: **Dr. Kangsoo Kim**

## Awards

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- 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

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|---|---|
| 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       |