**Curriculum Vitae**

**Marium-E- Jannat**

Ph.D. Candidate, Computer Science

Irving K. Barber Faculty of Science

University of British Columbia – Okanagan

Kelowna, BC, Canada

Phone: +1 (236) 795-2786

Email: [jannat08@student.ubc.ca](mailto:jannat08@student.ubc.ca)

<http://www.linkedin.com/in/marium-e-jannat>

# Education

**University of British columbia – okanagan** 2022 – Present

*Ph.D. Candidate in Computer Science*

*Thesis Advisor*: Dr. Mohammad Khalad Hasan

**University of british columbia – okanagan** 2021 – 2022

*M.Sc. in Computer Science (Transferred to Ph.D.)*

*Thesis Advisor*: Dr. Mohammad Khalad Hasan

**ShahJalal University of Science & Technology** 2008 – 2012

*B.Sc. (Engg.) in Computer Science & Engineering*

Department of Computer Science & Engineering

# Teaching Experience

**Teaching assistant** 2021 – Present

Department of Computer Science, Mathematics, Physics and Statistics

University of British Columbia – Okanagan, Canada   
Courses:

* Fall 2021: [COSC 222] Data Structures
* Winter 2022: [COSC 341] Human-Computer Interaction
* Fall 2022: [COSC 341] Human-Computer Interaction
* Winter 2023: [COSC 360] Web Programming
* Fall 2023: [COSC 341] Human-Computer Interaction
* Winter 2024: [COSC 341] Web Programming
* Summer 2024: [COSC 441/541] Advanced Human-Computer Interaction
* Winter 2025: [COSC 121] Computer Programming II

**CCNA Instructor** 2016 – 2021

Cisco Networking Academy Program

Shahjalal University of Science & Technology, Bangladesh

**University faculty member** 2015 – 2021

Department of Computer Science & Engineering,

Shahjalal University of Science & Technology, Bangladesh

Courses Taught:

* Artificial Intelligence [2016, 2017, 2018, 2021]
* Machine Learning [2020]
* Computer Networking [2019, 2020]
* Introduction to Programming Language Python [2019]
* Web Programming and Engineering [2019]
* Project III (3rd Year Final Project) [2018, 2019, 2021]
* Database Management Systems [2017]
* Project II (2nd Year Final Project) [2016, 2017]
* Project I (1st Year Final Project) [2016]
* Computer Graphics and Image Processing [2015, 2016, 2018]
* Introduction to Computing Applications [2015 – 2020]

**University Faculty Member** 2012 – 2015

Department of Computer Science & Engineering,

Sylhet International University, Bangladesh

Courses Taught:

* Artificial Intelligence [2014, 20115]
* Computer Networking [2014]
* Computer Graphics [2014]
* Database Management Systems [2013]
* Computer Programming with C [2013]
* Digital Logic Design [2012, 2013]

# Research Interest

My primary research interest is in Human-Computer Interaction (HCI) where I explore users’ preferences and design interaction solutions to make efficient human-computer interactivity with smart devices such as smartphone, smartwatch, augmented and virtual reality headsets. My current research areas include:

* Ubiquitous Interface and Interaction
* Mobile and Wearable User Interfaces
* Interaction Techniques

# Research Experience

**Research Assistant** 2021 – 2024

Okanagan Visualization and Interaction (OVI) Lab, University of British Columbia – Okanagan

As a research assistant, my responsibilities included:

* Created research plans and prototypes for mobile and wearable applications
* Designed and conducted user studies, and used applied quantitative as well as qualitative data analyses
* Wrote project reports and published results in top-ranked human-computer interaction venues
* Mentor undergraduate students and interns

**Research Assistant** 2023 - 2024

Project: Navigating the Intersection of Digital Technology, Travel Behavior, and Smartphone usage Implications

A collaboration between UBC integrated Transportation Research (UiTR) Lab and Okanagan Visualization and

Interaction (OVI) Lab, University of British Columbia – Okanagan

As a research assistant, my responsibilities included:

* Performing background study
* Designing research plans and prototypes for mobile applications (iOS and Android)
* Data analyses, reporting and writing project reports
* Writing application for research ethics approval

**Mitacs Accelerate Intern** 2022

Advisers: Apurva Narayan and Khalad Hasan, University of British Columbia - Okanagan

As an intern, my responsibilities included:

* Designing and conducting user studies
* Analyzing data and reporting results

# Publications

**Peer-Reviewed Conference Papers**

**Note**: The ACM Conference on Human Factors in Computing Systems (CHI) and the IEEE International Symposium on Mixed and Augmented Reality (ISMAR) is considered as the top venues for publishing Human-Computer Interaction research papers focusing interaction with smart devices including Augmented/Virtual Reality interactions (indicated with \* in the following list of publications).

[C\*.7] **Marium-E- Jannat**, Shukan Miteshkumar Shah, Khalad Hasan. 2025. Exploring Body-Anchored Augmented Reality Interfaces Across Different Mobility and Social Contexts. *The* 2025 IEEE International Symposium on Mixed and Augmented Reality (ISMAR  *2025*).Daejeon, South Korea. (Under Review)

[C.6] Jaisie Sin, Satabdi Das, **Marium-E- Jannat**, A K M Amanat Ullah, Nelusha Wattaranthenne, Patricia Lasserre, Jennifer N Boger, Khalad Hasan, Jennifer Jakobi. We Just Talk Like We’re Equals: Exploring Active Partnership in Technology Creation with Older Adults. *The 28th ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW 2025)*. Bergen, Norway. (Under Review)

[C\*.5] **Marium-E- Jannat,** Ngan Phan, Anmol Chadha, Keiko Katsuragawa, and Khalad Hasan. HAI-AR: Exploring Hand-Anchored Interfaces in Augmented Reality while Walking. *In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI 2025)*. Article 612, 1–18. Yokohama, Japan. <https://doi.org/10.1145/3706598.3713858>

[C\*.4] **Marium-E- Jannat**, Prateek Dhaka, Keiko Katsuragawa, Khalad Hasan. Exploring Augmented Reality User Interface Transitions Across Mid-Air, On-Body and Physical Surfaces. *In Proceedings of the* 2024 IEEE International Symposium on Mixed and Augmented Reality (ISMAR 20*24*). 1177-1186. Bellevue, WA, USA. <https://doi.org/10.1109/ISMAR62088.2024.00134>

[C\*.3] **Marium-E- Jannat**, Khalad Hasan. Exploring the Effects of Virtually-Augmented Display Sizes on Users’ Spatial Memory in Smartwatches. *In Proceedings of the* 2023 IEEE International Symposium on Mixed and Augmented Reality (ISMAR *2023*). 553-562. Sydney, Australia. <https://doi.org/10.1109/ISMAR59233.2023.00070>

[C.2] Thuan Vo, **Marium-E- Jannat**, Khalad Hasan, David Ahlstrom. FaceUI: Leveraging Front-Facing Camera Input to Access Mid-Air Spatial Interfaces on Smartphones. *In Proceedings of the Graphics Interface 2022 (GI 2022)*. 46 - 58. Montréal, Quebec. <https://doi.org/10.20380/GI2022.06>

[C\*.1] Marium-E- Jannat, Thuan T Vo, and Khalad Hasan. Face-Centered Spatial User Interfaces on Smartwatches. *In Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22).* Article 393, 1-7. New Orleans, USA.

<https://doi.org/10.1145/3491101.3519720>

**Peer-Reviewed Journal Papers**

**Note**: The International Journal of Human-Computer Studies (IJHCS) is a Q1 journal which is considered as the top 2% journal for publishing Human-Computer Interaction research papers (indicated with \* in the following list of publications).

[J.2] Nelusha Nugegoda, **Marium-E- Jannat**, Khalad Hasan, Patricia Lasserre. Exploring the Effect of Viewing Attributes of Mobile AR Interfaces on Remote Collaborative and Competitive Tasks. *In Proceedings of the* IEEE Transactions on Visualization and Computer Graphics*,* vol. 30, no. 11, pp. 7288-7298, Nov. 2024.<https://doi.org/10.1109/TVCG.2024.3456177>

[J\*.1] **Marium-E- Jannat**, Xing-Dong Yang, Khalad Hasan. Around-device finger input on commodity smartwatches with learning guidance through discoverability. *International Journal of Human-Computer Studies*, Volume 179: 103105, 2023, ISSN 1071-5819. <https://doi.org/10.1016/j.ijhcs.2023.103105>

# Scholarships and Awards

**Scholarships**

University Graduate Research Fellowship, University of British Columbia – Okanagan ($5000/Year) 2022 – 2025

*Institutional Academic and Research Excellence Scholarship*

International Four-Year Doctoral Partial Tuition Award, University of British Columbia ($3900/Year) 2022 – 2025

*Institutional International Student Research Scholarship*

Graduate Dean’s Entrance Scholarship, University of British Columbia – Okanagan ($5000) 2021

*Institutional Academic Scholarship*

Departmental Scholarship, Shahjalal University of Science & Technology 2008 - 2012

*Institutional Academic Scholarship*

Government Scholarship, Ministry of Education, Government of Bangladesh 2008 - 2012

*Undergraduate Education Scholarship*

**Awards**

Honorable Mention Award 2025

The ACM Conference on Human Factors in Computing Systems (CHI)

*International Research Award*

Graduate Student Travel Grant, University of British Columbia – Okanagan ($1000) 2023

*Institutional Award for Attending International Conference*

Special University of BC Okanagan Graduate Award, University of British Columbia – Okanagan ($1000) 2022

*Institutional Academic Award*

# Student Mentoring

**Undergraduate Students**

Anmol Chadha (Summer Intern from NJIT - India) and 2024

Ngan Phan ((B.Sc., University of British Columbia – Okanagan)

Summer Project with Dr. Mohammad Khalad Hasan.

Project title: HAI-AR: Exploring Hand-Anchored Interfaces in Augmented Reality while Walking

Led to paper publications at CHI 2025

Prateek Dhaka (Summer Intern from IIT Kharagpur - India) 2023

Summer Project with Dr. Mohammad Khalad Hasan.

Project title: Exploring Augmented Reality User Interface Transitions Across Mid-Air, On-Body and Physical Surfaces.

Led to paper publications at ISMAR 2024

Thuan Vo (B.Sc., University of British Columbia – Okanagan) 2021

Work-Study research project with Dr. Mohammad Khalad Hasan.

Project title: FaceUI: Leveraging Front-Facing Camera Input to Access Mid-Air Spatial Interfaces on Smartphones.

Led to Paper Publication at GI 2022

# Professional Services

**Program Committee**

International Conference on Bangla Speech and Language Processing 2018 – 2019

**Conference Reviewer**

ACM Conference on Human Factors in Computing Systems (CHI) 2021 – Present

ACM Conference on Intelligent User Interface (IUI) 2022 – Present

ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI) 2022 – Present

ACM Conference on Designing Interactive Systems (DIS) 2022 – Present

ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW) 2023 – Present

ACM Symposium on Virtual Reality Software and Technology (VRST) 2023

ACM Conference on Mobile and Ubiquitous Multimedia (MUM) 2023

ACM International Conference on Multimedia Retrieval (ICMR) 2023

ACM Symposium on User Interface Software & Technology (UIST) 2021 – 2022

IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR)  2022 – Present

IEEE International Symposium on Mixed and Augmented Reality (ISMAR)  2022 – Present

IEEE International Conference on 4th Industrial Revolution and Beyond (IC4IR) 2021

IEEE International Conference on Computer and Information Technology (ICCIT) 2016 – 2020

# Talks and Presentations

**Presentations at International Conferences**

CHI 2025 – Yokohama, Japan 2025

*HAI-AR: Exploring Hand-Anchored Interfaces in Augmented Reality while Walking.*

ISMAR 2024 – Bellevue, WA, USA 2024

*Exploring Augmented Reality User Interface Transitions Across Mid-Air, On-Body and Physical Surfaces.*

ISMAR 2023 – Sydney, Australia 2023

*Exploring the Effects of Virtually****-****Augmented Display Sizes on Users’ Spatial Memory in Smartwatches.*

# Status in Canada

Residency: Temporary Resident on Study Permit (Canada)

Application for Permanent Residency in Canada is under review

# References

**Dr. Mohammad Khalad Hasan**

Assistant Professor, Department of Computer Science, Mathematics, Physics and Statistics

Co-Director of Program, Masters of Data Science

Irving K. Barber Faculty of Science

The University of British Columbia – Okanagan

Kelowna, BC, Canada

Phone: +1 250 807 8077

Email: [khalad.hasan@ubc.ca](mailto:khalad.hasan@ubc.ca)

**Dr. David Ahlström**

Associate Professor

Department of Informatics Systems

University of Klagenfurt

Klagenfurt, Austria

Phone: +43 463 2700 3514

Email: [david.ahlstroem@aau.at](mailto:david.ahlstroem@aau.at)

**Dr. Keiko Katsuragawa**

Adjunct Assistant Professor

Cheriton School of Computer Science

University of Waterloo, Canada

Senior Research Officer

National Research Council Canada

Phone: +1343-540-5379

Email: [kkatsuragawa@uwaterloo.ca](mailto:kkatsuragawa@uwaterloo.ca), [Keiko.Katsuragawa@nrc-cnrc.gc.ca](mailto:Keiko.Katsuragawa@nrc-cnrc.gc.ca)