

Academic CV: Muhammad Bilal Khan

Education

2023 (present). PhD in Computer Science, Free University of Bozen-Bolzano, Italy

2012 MS in Human-Computer Interaction, Umea University, Sweden

2008 BS in Computer Engineering, Bahria University, Pakistan

Present appointment

- Tutor/Assistant for the Programming Fundamentals I & II (Unibz)
- September 2024-26
- National level (Italy)
- Free University of Bozen-Bolzano, Italy
- Supporting the course instructor in delivering lectures, assisting students with coursework, providing guidance during lab sessions, grading assignments and exams.

Academic Positions

March 2020 - November 2023. Senior Lecturer in the Department of Software Engineering, UCP, Pakistan

September 2018 - March 2020. Lecturer in the Department of Computer Science, UoL, Pakistan

September 2015 - September 2018. Instructor in the Faculty of Computer Science and Engineering, GIKI, Pakistan

Research and scholarships

PNRR Italian PhD Scholarship, 2023

Awards

Best Application Paper Award, mis4TEL Conference 2025

Main Research Interest

Child-computer interaction with a focus on storytelling, phygital artefacts for children and people with intellectual disabilities, and the integration of technology to enhance imagination, learning, and narrative experiences.

Recent Chair Responsibilities in Conferences

2026 Student Chair, AVI, Venice, Italy

2024 Session Chair, mis4TEL, Salamanca, Spain

2023 Conference Secretary, INMIC, UCP, Pakistan


Recent Relevant Publications

Accepted

1. Khan, M. B., Melonio, A., & Gennari, R. (2026)
poli:bit: a No-Code Toolkit for Creating Phygital Artefacts for Preschools
Manuscript **accepted** for the AVI 2026 – 18th International Conference on Advanced Visual Interfaces.
2. Melonio, A., Cicuto, E., Khan, M. B., Bellini, M. V., Burro, R., Raccanello, D., & Vicentini, G. (2026)
EmoRainbow: How Can Phygital Artefacts Support Emotional Regulation in Disaster Preparedness?
Manuscript **accepted** for the AVI 2026 – 18th International Conference on Advanced Visual Interfaces.

Published

3. Gennari, R., Khan, M. B., Melonio, A., & Pellegrino, M. A. (2026)
Comparing Robots and Non-robot Phygital Artefacts in Children's Storytelling via a Systematic Review.
HRI '26: Proceedings of the 21st ACM/IEEE International Conference on Human-Robot Interaction.

4. Mores, M., Khan, M. B., Melonio, A., & Gennari, R. (2025)
Phygital Artefacts and People with Intellectual Disability: A Case Study.
In Proceedings of 16th Biannual Conference of the Italian SIGCHI Chapter. Salerno, Italy, 6–10 October 2025.
5. Khan, M. B. (2025)
Designing Phygital Artefacts With and For Young Children.
In Proceedings of Technologies and Methodologies of Human-Computer Interaction in the Third Millennium, Doctoral Consortium, Salerno, Italy, 6–10 October 2025.
6. Gennari, R., Khan, M. B., & Melonio, A. (2025)
Storytelling and Phygital Artefacts for Preschools: The Case Study of the Hat Atelier.
In Proceedings of the 15th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning (MIS4TEL 2025). Lille, France: Springer.
 **Best Application Paper Award**
7. Gennari, R., Khan, M. B., & Melonio, A. (2024)
Storytelling with Technology-Enhanced Artefacts: A Literature Review of Toolkits for Children.
In Methodologies and Intelligent Systems for Technology Enhanced Learning, 14th International Conference (MIS4TEL 2024), Lecture Notes in Networks and Systems (Vol. 1171, pp. 243–254). Cham: Springer Nature Switzerland.
8. Khan, M. B., Mushtaq, M. T., Khan, S., Asjad, M., Ali, J., & Bilal, J. (2019)
Modified RLS Algorithm for Interference Cancellation in a MIMO System.
In Proceedings of the 2019 International Conference on Innovative Computing (ICIC 2019) (pp. 1–6). Lahore, Pakistan: IEEE.
9. Ali, U., Shaukat, A., Hussain, M., Ali, J., Khan, K., Khan, M. B., & Shah, M. A. (2016)
Automatic Cancerous Tissue Classification Using Discrete Wavelet Transformation and Support Vector Machine.
Journal of Basic and Applied Scientific Research, 6(7), 15–23.

Date
15/05/2026