

Sheza Munir

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Education

University of Toronto

2025 - 2029

PhD, Computer Science - Advisor: Dr. Syed Ishtiaque Ahmed | Third Space Lab | DGP

Toronto, Canada

Massey Junior Fellow, Collective Intelligence Project Research Fellow

University of Michigan

May 2025

Master of Health Information (Data Science and Machine Learning)

Ann Arbor, MI, USA

Lahore University of Management Sciences (LUMS)

May 2023

Bachelor of Science in Computer Science

Lahore, Pakistan

Publications

[The Consensus Trap: Dissecting Subjectivity and the "Ground Truth" Illusion in Data Annotation](#)

Sheza Munir, B. Mah, K. Kalsi, Shivani Kapania, Julian Posada, Edith Law, Ding Wang, Syed Ishtiaque Ahmed

ACM Conference on Fairness, ACCountability, and Transparency (FAccT) 2026

[A Fair, Multi-Perspective, Ethical Reasoning Framework](#)

Sheza Munir, A. Rodoshi, S. Lee, F. Chang, Xujie Si, Syed Ishtiaque Ahmed

Canadian AI Conference 2026

[Deepfake Defense: Constructing and Evaluating a Specialized Urdu Deepfake Audio Dataset](#)

Sheza Munir, W. Sajjad, M. Raza, E. Abbas, AH. Azeemi, Ihsan Ayyub Qazi, Agha Ali Raza

Annual Meeting of the Association for Computational Linguistics (ACL) 2024

[ExpertLongBench: Benchmarking Language Models on Expert-Level Long-Form Generation Tasks with Structured Checklists](#)

Jie Ruan, Inderjeet Nair, Shuyang Cao, Amy Liu, **Sheza Munir**, ... , Lu Wang

International Conference on Learning Representations (ICLR) 2026

[FactBench: A Dynamic Benchmark for In-the-Wild Language Model Factuality Evaluation](#)

Farima Fatahi Bayat, Lechen Zhang, **Sheza Munir**, Lu Wang

Annual Meeting of the Association for Computational Linguistics (ACL) 2025

[Verifact: Enhancing long-form factuality evaluation with refined fact extraction and reference facts](#)

Xin Liu, Lechen Zhang, **Sheza Munir**, Yiyang Gu, Lu Wang

Conference on Empirical Methods in Natural Language Processing (EMNLP) 2025

Research Experience

PhD Researcher | The Third Space Lab

Aug. 2025 – Present

University of Toronto

Toronto, CA

- Study data aggregation as a sociotechnical process, examining how annotator expertise, lived experience, and disagreement influence model behavior, treating subjectivity and conflict as signal rather than noise
- Develop and evaluate aggregation methods for high-conflict scenarios using explanation-based and formal reasoning approaches. Advisor: Dr. Ishtiaque Ahmed

Research Assistant | LAnguage Understanding and generatioN researCH (LAUNCH) Lab

Jun. 2024 – May 2025

University of Michigan

Ann Arbor, US

- Developed VERIFY, a pipeline for evaluating the factuality of language models (LLMs), and created FACTBENCH, a benchmark model accuracy and identify key hallucination triggers. Advisor: Dr. Lu Wang

Research Assistant - Lab Head

Aug. 2021 – May 2023

Center for Speech and Learning Technologies-CSALT LUMS

Lahore, PK

- Pioneered a Urdu speech training dataset for deepfake detection with 35,000 audios, using deep learning models.
- Managed a team of 33 research students, overseeing data acquisition, annotations, and model training workflows.

Machine Learning Intern - AI in Healthcare Group

Jan 2022 – Jul 2023

Lahore University of Management Sciences

Lahore, PK

- Awarded Student as Co-Researcher Grant (2022) for the Migraines Prediction Project
- Built LSTM models on time-series wearable data to predict migraines 24 hours in advance with 88% accuracy

Technical Skills

Programming: Expert in Python (NumPy/Pandas), C++/Java; Software Design Patterns, Version Control (Git), unit testing.

AI/ML & Theory: Specialized in Large Language Models, Deep Learning (PyTorch/TensorFlow), and Responsible/Fair AI

Mathematical Foundations: Mastery of Multivariable Calculus, Probability/Statistics, Discrete Math

Pedagogy: Proven record as an Instructor/GSI for large cohorts (300+ students); expert in managing Unix/Shell envs

Teaching Experience

Teaching Assistant Aug. 2025 – Present

CSC 300 - Computers and Society, University of Toronto Toronto, CN

- Facilitating critical discourse on the ethical, legal, and sociotechnical implications of pervasive AI systems.

Graduate Student Instructor Aug. 2023 – May 2025

SI 504 - Git, Shell and Servers, University of Michigan Ann Arbor, MI, USA

- Managed course content, mentored 300+ students in an early career course on version control and shell scripting.

Instructor Winter 2024, Summer 2024

SIADS 642 - Deep Learning, University of Michigan Ann Arbor, MI, USA

- Mentored 100+ graduate-level scholars in the theoretical foundations and implementation of deep neural architectures.

Teaching Assistant Fall 2021, Winter 2022

CS 433 - Machine Learning for Speech Processing,

CS 466 - Human Computer Interaction, LUMS Lahore, PK

- Supported curriculum delivery for advanced undergrad coursework in signal processing and human-centered design.

Awards and Honors

Massey Junior Fellowship 2026-27

Collective Intelligence Project Research Fellowship 2026

Outstanding Graduate Student Instructor Award Nominee - *University of Michigan* 2023 & 2024

100% Merit Scholarship (full tuition for master's) - *University of Michigan* 2023 – 2025

Silver Medal, Bachelor of Computer Science - *LUMS* | GPA: 3.97/4.0 2023

Dean's Honor List, Rank 2/242 | 100% Merit Scholarship - *LUMS* 2019 – 2023

Outstanding Volunteer Service Award - *U.S. Department of State* 2016

Winner, Health Tech Pitch Competition - *Aga Khan University* 2023

Student as Co-Researcher (ScR) Grant - *LUMS* 2022

International Chemistry Olympiad - National Winner, Global Honourable Mention 2019

Leadership and Service

Computer Science Graduate Society - Social Coordinator - *University of Toronto* 2026

Co-Chair, CS Academy for High School Students - *University of Toronto* 2026

GAAP Mentor - Graduate Application Assistance Program, *University of Toronto* 2025

IEEE LUMS Women in Computing Chapter Lead 2021 – 2022

- Organised outreach programmes for women in tech across Pakistan

Vice President - Innovation and Design Society, *LUMS* 2021 – 2022

- Organised the first in-person event post-COVID: a two-day showcase for 40 artists from 400+ submissions, with talks and workshops on art and computer science

Google Developer Student Club Lead - LUMS 2021 – 2022

Team Captain - Basketball Team - GACS 2017 – 2019

Member - Swimming and Running Clubs at LUMS, UMich and UofT 2019 – 2026