

Tukhbita Afroz Nawmi

Being articulate and visionary, I am focused on pursuing a career in education and data science, with a research focus on artificial intelligence, to enhance my expertise and contribute to educational equity and social development in the learning sphere.

EDUCATION:

PhD in Educational Data Science

University at Buffalo (UB), The State University of New York
08/2025 – present, CGPA 4.00, Major 1: Educational Statistics & Research Methods, Major 2: Educational Psychology, Graduate School of Education

Master's in Educational Psychology and Quantitative Methods

University at Buffalo, The State University of New York
08/2024 – present, CGPA 4.00, Counseling, School and Educational Psychology

Master's in Business Administration

North South University (NSU), Bangladesh
01/2011 - 06/2015, CGPA 3.84, Human Resource Management (HRM)
"High Performance Management of Recruitment & Selection Process of MIB", 2015

Bachelor's in Business Administration

American International University - Bangladesh (AIUB) 05/2006 - 12/2009, CGPA 3.98, Accounting & Finance
"The Demographic pattern of the Investors of Capital Market of Bangladesh: A Study on Merchant Banking Division of IDLC Finance Ltd", 2010

Advanced Level (A'level) | Bangladesh International Tutorial (BIT)
01/2004 - 01/2006, Dhaka

Ordinary Level (O'level) | Mastermind International School
06/2003 - 01/2004, Dhaka

RESEARCH, PROJECTS & WEBINARS

"What Types and Conditions of AI Work for Learning? Meta-analytic Review of AI-assisted Educational Intervention Studies" (08/2025 - present)

- WIP - Project under Center for Early Literacy and Responsible AI (CELRAI), UB (<https://earlyliteracyai.org/>)
- Submitted proposal to AERA, 2026 – work in progress

"AI Tool - Product Evaluation" (08/2025 - present)

- Efficacy study, UB

"Stakeholders Perspective on AI Integration K-2 Education" (06/2025 - present)

- Qualitative data analysis through focused group interview
- AI integration for K-2 early literacy learning and K-12 education

"Tackling The Battle of Mind and Machine: Impact of AI on Mathematical Creative and Critical Thinking Skills" (05/2025)

- Literature Review, UB

"Influence of Extracurricular Resources on Mathematics Achievement: PISA 2022 Study" (07/2025)

- Submitted proposal to AERA, 2026, UB

"Impact of AI usage on Middle School Students" (12/2024)

- Pilot study using statistical & educational research methodology, UB

"The Indispensable Role of Parenting: Shaping Young Minds" (12/2024)

- Literature Review, UB

"Importance of Effective Communication of HR" (11/2022)

CONTACT:

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ACHIEVEMENTS:

- Louise Annie Gillespie Fellowship from GSE, UB 2025
- GSE Dean's Student Research Award 2025, AERA Conference, UB
- Summa Cum Laude (01/2011), AIUB
- The Duke of Edinburgh's Silver Award (04/2010)
- The Duke of Edinburgh's Bronze Award (05/2009)
- Accounting for Accountability 2009 (05/2009) Winner of Accounting Case Analysis Competition, AIUB
- Battle of Minds (11/2008) Finalist of Inter Business School Competition organized by British American Tobacco (BAT), AIUB
- Young Entrepreneur Award (YEA) (02/2009)
- Semi Finalist for Inter Business School Business Plan Competition, organized by HSBC, Bangladesh

CONFERENCE:

Asia Research Institute's 4th Annual Korean Studies Conference – **AI and Data Science in Education (AIDE): Insights from South Korea**, September 26, 2025, Buffalo, USA

American Educational Research

Association (AERA) Conference 2025 – Research, Remedy, and Repair: Toward Just Education Renewal, April 23–27, 2025, Denver, USA

TRAINING:

Youth Mental Health First Aid USA
National Council for Mental Wellbeing, 10/04/2025, USA

Adult Mental Health First Aid USA
National Council for Mental Wellbeing, 09/06/2025, USA

Introduction to Data Visualization with R
Quantitative and Qualitative Data Analysis Lab workshop - 11/08/2024, UB, USA

- Hosted a virtual webinar for HRPSB (<https://www.facebook.com/hrpsb/>)

"Inclusive HRM in the New Normal" (10/2022)

- Hosted a conference in collaboration with JCI Dhaka Sparks and HRPSB
<https://www.tbsnews.net/economy/corporates/jci-dhaka-sparks-hrpsb-organize-session-inclusive-hrm-new-normal-507694>

"How HR-Professionals Lead Interview Based on Competency" (10/2022)

- Hosted a virtual webinar for HRPSB (<https://www.facebook.com/hrpsb/>)

"Beautiful Minds - Demystifying Learning Disabilities" (10/2022)

- Project for children with learning disabilities with Canadian Maple International School in collaboration with JCI Dhaka Sparks

"Digital Enlightenment" (08/2022)

- Project at Mathabhangha Bhairab High School & JCI Dhaka Sparks to train teachers & students with basic computer literacy using internet
<https://www.dhakatribune.com/business/2022/12/17/jci-dhaka-sparks-forms-new-board-for-2023>

"Entrepreneurship Development" (12/2015)

- Edited chapters of "Women Entrepreneurship" & "Inside the Entrepreneurial Minds" of the book

Experience:

Graduate Research Assistant

IES funded Center for Early Literacy and Responsible AI (CELaRAI)

01/2025 – present, UB, USA

Tasks: Methodology & Ethics Thrusts, AI in Education Project:

- Supported methodological research tasks and investigated literacy evidence on AI tool efficacy in student learning outcomes.
- Analyzed and reviewed past AI education policies, contributing to ethical policy refinement.
- Collected and analyzed early years' reading data from Grand Island School for exploratory study and district leadership (ASR) data.
- Developed focus group questionnaires and conducted interviews with IT professionals from Buffalo Public Schools.
- Assisted in product evaluation and AI tool efficacy studies.

Assistant Teacher

The Aga Khan Academy Dhaka (AKAD)

02/2023 – 08/2024, Dhaka, Bangladesh

Tasks: Primary Year Program of Grade 5 and Grade 3 following the International Education - International Baccalaureate (IB). Provide support to the homeroom teacher & reinforce lessons for the students. Creating lesson plans, documenting progress & overseeing lesson preparations.

Human Resource Consultant

Ensuite Ltd. | 07/2015 - 02/2023, Dhaka, Bangladesh

Kitchen Cabinet & Furniture Manufacturing Showroom

Tasks: Developed proper HR system along with employee satisfaction and retention policy. Planned events for clients, organized local workshops & lead projects, communications & collaboration with China based company (Oppein Ltd)

Intern

IDLC Finance Ltd. | 02/2010 - 05/2010, Dhaka, Bangladesh

Industrial Development Leasing Company, Merchant Banking Division

Tasks: Bookkeeping of the capital market trade for the clients both manually and electronically, assisting them to open accounts

Teacher

Beautiful Mind | 01/2005 - 01/2006, Dhaka, Bangladesh

www.beautifulmindbd.net/

Tasks: Specialized teacher for autistic & mentally disabled children

Introduction to R with RStudio

Quantitative and Qualitative Data Analysis

Lab workshop -10/25/2024, UB, USA

PYP Making the PYP Happen: Implementing Agency Cat 1

The Aga Khan Academy, Dhaka

09/15/2023, Dhaka, Bangladesh

Teachers' training on IB curriculum

The Practical Application of Microsoft Excel Functions and Formulas Course

Excel Excelsior, Malaysia

04/27/2024

TECHNICAL SKILLS:

Python, RStudio, SPSS, SQL, IDB Analyzer, Data Cleaning, Data Analysis, Statistical Modeling, Machine Learning, Excel

SOFT SKILLS:

Leadership, Critical thinker, Fast learner, Creativity, Team player, Time management, Pragmatic decision making, Communicator

Clifton Strengths Assessment:

Responsibility, Relator, Achiever, Developer, and Input, showcasing a strong balance of reliability, relational skills, and a passion for growth and knowledge acquisition.

EXTRA CURRICULAR:

Member

GSE Executive Committee – Student Representative, Term 2025-2026, UB, USA

Graduate Student Issues Committee (GSIC) under National Council on

Measurement in Education (NCME)

05/2025 – present, USA

American Educational Research Association (AERA)

12/2024 – present, USA

Committee for Social Justice and Inclusion (CSJI)

(09/2024 – present) UB, USA

Quantum Method Course

Yoga Foundation

01/2014, Dhaka, Bangladesh

Mediation Course for Mind Development and Self-Improvement

VOLUNTEER IN ORGANIZATIONS:

Project CELaRAI (08/2025 – present), UB
Research Assistant, Buffalo, UB

Junior Chamber International (JCI) Dhaka Sparks (01/2024 – 12/2024)
Executive Vice President (EVP), Bangladesh

Human Resource Professionals' Society of Bangladesh (HRPSB) (06/2019 – 01/2024)
Joint Secretary, Bangladesh

Junior Chamber International (JCI) Dhaka Sparks (01/2023 – 12/2023)
Vice President (VP), Bangladesh

Beautiful Mind School (11/2022 - 01/2023)
Assistant Teacher for autistic & mentally disabled children, Bangladesh

Junior Chamber International (JCI) Dhaka Sparks (01/2022 – 12/2022)
Director, Bangladesh

International Association of Students in Economics and Business (AIESEC)
(01/2008 – 02/2009), Dhaka
Member in Outgoing Exchange Team (OGX), AIUB, Bangladesh

Workshops

- *Review is Right for You?* – Evidence Synthesis Workshop Series (Part 1), University at Buffalo, September 9, 2025
- *How to Build a Search for a Systematic or Scoping Review* – Evidence Synthesis Workshop Series (Part 3), University at Buffalo, September 16, 2025
- *Screening for Review Projects* – Evidence Synthesis Workshop Series (Part 4), University at Buffalo, October 2, 2025

LANGUAGES:

English - *Fluent*

Bengali - *Fluent*

Hindi – *Intermediate*

Urdu - *Intermediate*

INTERESTS:

Fitness

Travelling

Painting

Meditation

Reading mystery books

Advocating children on creativity