

**Sehrish Jabeen**

Utah State University

Emma Eccles Jones College of Education and Human Services

School of Teacher Education and Leadership

2805 Old Main Hill, Logan, Utah 84322

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**EDUCATION**

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**Ph.D. in Education** **2024-present**

Utah State University, Logan, UT

Specialization in Curriculum & Instruction

Concentration in Mathematics Education & Leadership

**M.S. in Computer Engineering** **2019**

University of Engineering and Technology, Taxila, PK

Specialization in Digital Design

**B.Sc. in Computer Engineering** **2011**

University of Engineering and Technology, Taxila, PK

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**PROFESSIONAL HISTORY**

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**Graduate Research and Teaching Assistant** **2024-present**

School of Teacher Education and Leadership, Utah State University

**Audit and Compliance Officer** **2018-2021**

**Management Officer (Operations)** **2015-2018**

**Information Technology Officer (Technical Operations)** **2014-2015**

Allied Bank Limited, PK

**High School Teacher, Grades 9-12** **2012 – 2014**

Mathematics and Computer Science Teacher

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*Graduate Teaching/Research Assistant, School of Teacher Education and Leadership*

*Sept 2024*

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## RESEARCH

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### Research Interests

- Problem-solving in Mathematics at the Elementary Level
- Mathematical well-being and its impact on learning
- Instructional practices in Mathematics Education
- Curriculum design and instruction in Mathematics
- Mathematical Modeling at secondary level.
- Data Science Education

### Journal Articles (Refereed) (Under Review)

- **Jabeen, S.**, Abideen, Z. (under review). A Cognitively Guided Instruction Approach to Fractions. *Mathematics Teacher: Learning and Teaching PK–12*.
- **Jabeen, S.**, Campbell, T., Abideen, Z., & Jessica, S. (under review). Exploring the Impact of Cognitively Guided Instructions: Systematic Review of K-12 Mathematics Education. *International Journal of Mathematical Education in Science and Technology*.
- Campbell, T. G., Rich, E., **Jabeen, S.**, & Barker, M. (under review). Teaching practices that promote mathematical wellbeing in elementary learners: A one-year longitudinal analysis. *Journal for Research in Mathematics Education*.
- Campbell, T.G., Rich, E., **Jabeen, S.**, Barker, M., & Green, M. (major revisions). A case study of teaching practices that promote mathematical wellbeing for elementary students in the United States. *LUMAT-B: International Journal of Math, Science, and Technology Education*.
- Campbell, T. G., **Jabeen, S.**, Barker, M., & Rich, E. (in progress). Regional variations in 8th grade students' interest and value toward mathematics: A TIMSS 2023 analysis.

### Conference Proceedings (Refereed)

- Abideen, Z., **Jabeen, S.** (2025). The Role of Context in Mathematical Problem-Solving: Bridging Informal and Formal Learning: A Systematized Literature Review. *2025 ASEE Annual Conference & Exposition Proceedings*.
- Abideen, Z., **Jabeen, S.** (2025). Examining the Gender Difference on the Five Facets of Need for Cognitive Closure Among Engineering Students. In Proceedings of the 2025 IEEE Frontiers in Education Conference (FIE 2025).
- Abideen, Z., **Jabeen, S.** (2025). Exploring the Relationship Between Achievement Goal Orientation and Cognitive Engagement in Engineering Problem-Solving. In Proceedings of the 2025 IEEE Frontiers in Education Conference (FIE 2025).

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- Abideen, Z., **Jabeen, S.**, Iqbal, A. (2025). Exploring the Impact of the Need for Cognitive Closure on Undergraduate Engineering Students Cognitive Engagement During Problem Solving. In Proceedings of the 2025 IEEE Frontiers in Education Conference (FIE 2025).
- Abideen, Z., **Jabeen, S.** (2025). A Systematized Literature Review on the Role of Goal Orientation in Active Learning and Engagement During Problem-Solving in STEM Education. In Proceedings of the 2025 IEEE Frontiers in Education Conference (FIE 2025).

### **Professional Presentations (Refereed) (Under Review)**

- **Jabeen, S.**, Campbell, T. G., Abideen, Z. (under review for 2026). *Exploring the Impact of Cognitively Guided Instructions: Systematic Review of K-12 Mathematics Education*. [Paper Session]. Annual Meeting of the American Educational Research Association (AERA), Los Angeles, California.
- **Jabeen, S.**, Campbell, T. G., Kularajan, S. (under review for 2026). *Designing Effective Modeling Tasks: Lessons Learned from an Inservice Professional development Program*. [Paper Session]. Annual Meeting of the American Educational Research Association (AERA), Los Angeles, California.

### **Research Experience**

#### **Doctoral Researcher**

*Data Science in Rural Utah with Mathematical Modeling (NSF Grant #2345194)*

- Assisted in research on mathematical modelling with preservice teachers.

*Between Group Movement and Mathematical Well-Being in Elementary Thinking Classrooms Research Project*

- Contributed to data collection and analysis of classroom-based research on student engagement and mathematical well-being.

#### **MS Research Thesis**

Permanent and Intermittent Link Error Removal Technique for Reliable Network-on-Chip (NoC) Design. Focused on developing robust mechanisms to detect and mitigate link errors in NoC architectures, enhancing communication reliability and system performance. By addressing both permanent and transient faults, this approach ensures efficient and fault-tolerant NoC operation.

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## **BS Final Year Project**

Radio-Frequency Identification (RFID) based Children Tracking Project for Elementary School Students. This project utilized RFID technology to enhance student safety by enabling real-time tracking and monitoring within school premises.

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## **TEACHING**

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### **University Teaching**

Teaching Course at College of Education and Human Services

Utah State University, Logan, Utah (2024-Present)

### **Undergraduate Courses**

- **ELED 4062/4063 and ELED 4056 - Teaching Elementary School Mathematics II: Number, Operations, & Algebraic Reasoning and Practicum for Teaching Elementary School Mathematics II**

Development of pedagogical content knowledge in number, operations, and algebraic reasoning for teaching students from Preschool through Grade 6. Emphasis on designing and implementing mathematics instruction, assessment, remediation, and intervention strategies, applied within a field-based placement. In-person course, Fall 2024 and Spring 2025.

- **ELED 4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, & Proportional Reasoning Undergraduate Course.**

Development of pedagogical content knowledge in rational numbers, operations, and proportional reasoning for teaching grades Preschool to Grade 6. Understanding characteristics of instruction, assessment, remediation, and intervention are critically considered. Taught online: Fall 2025.

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## **PROFESSIONAL TRAINING**

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- Business Services Training Manager at ALLIED BANK LIMITED, PK.
- Training at PIEAS University as an IT Officer
- Training at IT groups of PTCL
- Professional Teachers Conduct Training at Elementary School

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## TECHNICAL SKILLS

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- Programming Languages C, C++
  - Statistical Analysis using SPSS and R Packages
  - Database Management system using MYSQL and ORACLE
  - MAXQDA for Qualitative Data Analysis
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## OUTREACH ACTIVITY

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*Edith Bowen Laboratory School, Utah State University*

- Conducted a mathematics outreach activity with 3rd-grade students focused on **fractions**.
  - Applied **Cognitively Guided Instruction (CGI)** strategies to support conceptual understanding and problem-solving.
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## MENTORING EXPERIENCE

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### **Mentor for Pre-Service Teachers**

*Utah State University*

- Supervised and guided pre-service teachers during practicum placements.
  - Provided feedback on lesson planning, classroom management, and instructional strategies.
  - Supported professional growth by modeling effective teaching practices and facilitating reflective discussions
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## SERVICE

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### **PEER REVIEWS FOR PRACTITIONER JOURNAL:**

Reviewer (2025). Article submissions, Mathematics Teacher: Learning and Teaching Pre-K-12, National Council of Teachers of Mathematics.

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*Sept 2024*