Abeera P. Rehmat, Ph.D.
Research Scientist, II
Center for Education Integrating Science, Math, & Computing (CEISMC)
College of Lifetime Learning
Campus Location: Research Administration Building, Room 2213C
https://lifetimelearning.gatech.edu/node/209

RESERCH INTERESTS:

Dr. Rehmat's research explores the intersection of engineering, computer science education, and artificial intelligence, leveraging emerging technologies to improve problem-solving, critical thinking, and practical skills for lifelong learning in both formal and informal settings. She also supports teacher professional development, promoting the effective integration of innovative technologies and research-based practices. By bridging cutting-edge research with real-world education, she empowers learners and educators to think critically, solve complex problems, and cultivate essential 21st-century skills.

TEACHING PHILOSOPHY

My teaching philosophy centers on human-centered, constructivist learning that fosters critical thinking, problem-solving, collaboration, and reflection. I design authentic, problem-based experiences that develop practical skills for lifelong learning. Through collaborative and reflective practices, students gain deep conceptual understanding and professional, ethical, and 21st-century skills. Authentic assessments mirror real-world contexts, and I extend this approach to mentoring, fostering goal-oriented relationships that support students' academic, technical, and professional growth.

EDUCATION

- **Ph.D. in STEM Education, with a Concentration in Engineering Education**
  University of Nevada, Las Vegas, Las Vegas
- **M.S. in Elementary Education with a Minor in Educational Technology**
  Nova South Eastern University, Florida
- **B.S. in Computer Science with a Minor in Business Administration**
  St. John's University, New York

SCHOLARLY OUTPUTS

Ehsan, H., **Rehmat**, **A. P**., & Askarian Khanamani, S. (2026). Developing STEM wisdom in neurodiverse gifted learners: An asset-based approach to engineering design for autistic children. *Roeper Review*, *48*(1), 51–62. https://doi.org/10.1080/02783193.2025.2593023

Choi, J., **Rehmat**, **A. P.,** Gale, J., Alemdar, M. (2025). Universal design: A study exploring teachers' experiences navigating a curriculum website. *Journal of Information Technology Education: Innovations in Practice, 24,* 026. https://doi.org/10.28945/5649

Rehmat, **A. P**., Towner, A. A, Alemdar, M., Helms, M. E, Rosen, J. H, Moore, R., & Weissburg, M. (2024). Examining an evolving biologically inspired design professional learning environment through conjecture mapping and design-based research. *Biomimetics*, *9*(8):468, https://doi.org/10.3390/biomimetics9080468. [**Editor Choice Article**]

Rehmat, **A. P**., Glazewski, K., & Hmelo-Silver, C. E. (2022). *Contextualizing problem-based learning: An overview of research and practice*. Handbook of Educational Psychology. Oxford University Press.

Rehmat, **A. P**., Ehsan, H., & Cardella, M. E. (2020). Instructional strategies to promote computational thinking for young learners. *Journal of Digital Learning in Teacher Education (JDLTE)*. *36*(1), 46-62. **[Outstanding Research Paper Award]**