



University of
Pittsburgh

School of Computing
and Information

"Harnessing Generative AI in Education: Insights from StoryAI's Design and Development"

Abstract: The rapid advancement of generative AI (GAI), exemplified by tools like ChatGPT and Stable Diffusion, has opened new horizons for open-context conversations and creative outputs and has the potential to revolutionize education. Yet, integrating such technologies in education is complex, requiring a deep understanding of the practical, social, and pedagogical facets of learning environments. In this talk, I will explore the dynamic of GAI, focusing on how advanced GAI systems can be tailored and implemented safely and effectively in diverse learning environments. This talk will provide insight into the challenges and opportunities presented by GAI systems in educational settings. I will present a case study, centered around the design and evaluation of StoryAI, a text-based conversational GAI platform for enhancing narrative and writing skills among elementary students, which illustrates a commitment to developing GAI tools that are not only innovative but also responsive to the diverse needs and contexts of learners. Through a series of studies involving students, parents, and educators, I aim to provide insights into the effective design and implementation of GAI in education, contributing to a future where technology and pedagogy come together to foster enriched learning for all.

Bio: Ariel Han is a Ph.D. candidate in the University of California, Irvine informatics department, working at the Creativity Labs and Connected Learning Lab. Ariel holds master's in Entertainment Technology Center from Carnegie Mellon University and bachelor's degrees in Information science, Industrial design, and Fine arts from Seoul National University. Ariel's research interests focus on the intersection of AI, educational technology, learning sciences, and HCI. Ariel designs AI technologies that promote literacy development, STEM learning, and creativity for children and families. Ariel investigates fundamental questions on how people interact and collaborate with AI-powered tools and agents to empower teaching and learning by examining how these technologies play the role of learning companions for children's growth. Ariel has published in prestigious HCI conferences such as CHI, IDC, and learning science conferences in ISLS, and CLS, as well as journals in the field of child-computer interaction, educational technology, learning sciences in IJCCI, EIT, and I&LS. She was awarded the VITAL challenge, which is supported by the NSF, in 2023.



Ariel Han

PhD Candidate
University of California,
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Thursday
January 25

10:00AM - 11:00AM

5317 Sennott Square

Join the Zoom meeting:
<https://pitt.zoom.us/j/97198920588>

Passcode: 954640

Artificial Intelligence and
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