Humanizing AI for Collaborative Learning

How can generative AI help humans interact more effectively with other humans, especially in learning contexts?

**ENGAGE** students and colleagues in prototyping ways for generative AI to support collaborative learning, drawing on sociocultural theory as appropriate.

**DEVELOP** specific tools and platforms that help humans more effectively interact with each other, assisted and augmented by AI, in ways that allow us to conduct experimental evaluation.

**CLASSES**
- Seminar on Generative AI and Education (Spring 2023)
- d.school Design for Learning: Generative AI for Collaborative Learning (Fall 2023)
- Introsem: How can generative AI help us learn? (Spring 2024)

**SAMPLE PROJECTS**
- **BRUNO**: connects generative AI to spoken conversation, leading us also to explore AI-based analysis of classroom transcripts or in-situ support for collaborating peers.
- **CHATCOLLAB**: allows multiple humans to interact with multiple AI agents, enabling more practice of collaboration skills and taking on different roles in a team.

**INSIGHTS** (talk to us about these!)
- Generative AI can find useful insights in multi-person dialogue and these kinds of things can be identified through simple prompting.
- Applying social theories is in some ways easier, in some ways harder.
- Nuanced turn-taking in real-time conversations is very hard - we’re not near there yet.

Core Team: John Mitchell, Jenny Osuna, Glenn Fajardo, Miroslav Suzara, Sierra Wang, Yemariam Mamo, Glenn Kleiman, Ben Klieger

Photo: Design for Learning