



2025 EXTERNAL ADVISORY BOARD Meeting

Friday, May 16, 2025

Coda Building, Atrium (9th Floor), 756 W Peachtree St NW, Atlanta, GA 30308

Virtual: <https://gatech.zoom.us/j/91370758467>

Questions for EAB

We want to report on the progress AI-ALOE has made in its 4th year of existence. To try to articulate this, we have grouped 22 5-min presentations (some in panel discussions) into 6 categories:

- (1) Impact on learning,
- (2) Iterative/integrative design,
- (3) Contributions to data architecture,
- (4) Contributions to theories of learning and of AI,
- (5) Design heuristics for building AI agents for learning, and
- (6) Impact on instruction and workforce development.

Are these the right categories?

At the end of the 4th year of AI-ALOE, NSF may want to know what have we done as an Institute (with \$20M in funding over 5 years) that we couldn't have done individually (say, with 10 projects getting \$2M each over 5 years).

How do we best articulate this?

May 16, 2025	Poster Session: AI-ALOE Team mount all posters by 7:45 AM
7:30 – 8:15 AM	Breakfast – Atrium, Coda Building
8:15 – 8:25 AM	Welcome and Overview – Ashok Goel
8:25 – 9:15 AM	Impact on Learning – Chris Dede (Chair) TCSG (Rebecca Storey), Apprentice Tutor (Jennifer Reddig), iTELL (Wesley Morris), Jill Watson (Sandeep Kakar), SMART (Yoojin Bae) 5 min per presentation, 25 min for discussion
9:15 – 9:45 AM	Interactive/Integrative Design – Scott Crossley (Chair) User-Engaged Design (Sanaz Ahmadzadeh), Data Visualization (Scott Crossley), Ivy (Rahul Dass) 5 min per presentation, 15 min for discussion
9:45 – 9:55 AM	BREAK
9:55 – 10:25 AM	Contributions to Data Architecture/Analysis – Suzanne Carbonaro (Chair) A4L (Ploy Thajchayapong), Meso-Learning in SAMI (Jolanta Wojcik), Meso-Learning in VERA (Jeanette Luu) 5 min per presentation, 15 min for discussion
10:25 – 11:05 AM	Contributions to Theories of Learning and of AI – Min Kyu Kim (Chair) 5 min per presentation, 20 min for discussion
	A Theory of Learning (Col/ICAP in SMART—Jinho Kim)
	A Theory of Self-explanation in AI Agents (Theory of mind & GenAI/KBAI for meta-reasoning; Jisu Kim)
	A Theory of Building AI Agents (GenAI/KBAI & VAL the TutorBuilder, Glen Smith)
11:05 – 11:15 AM	BREAK
11:15 – 11:50 AM	Design Heuristics for Building AI agents for Learning – Chris MacLellan (Chair) Panel Discussion
	Apprentice Tutor (Momin Siddiqui), iTELL (Langdon Holmes), Jill Watson (Sandeep Kakar), SMART (Jinho Kim) (5 min each, 15 min discussion)
11:50 AM - 12:15 PM	Impact on Instruction and Workforce Development Pascael Beuadette (Chair) Panel Discussion OMSCS (David Joyner), A class at TCSG (Kristi Singletary), TCSG (Adie Shimandle)

12:15 – 1:15 PM	Lunch + Poster Session
1:15 – 2:00 PM	EAB Meets (Please select a scribe and a presenter)
2:00 – 3:15 PM	EAB Feedback and Discussion
3:15 PM	Thanks, and Adjourn – Ashok Goel