



bit.ly/AAAE4AI

How Might Artificial Intelligence (AI) Extend Learning, Thinking, & Problem Solving?”

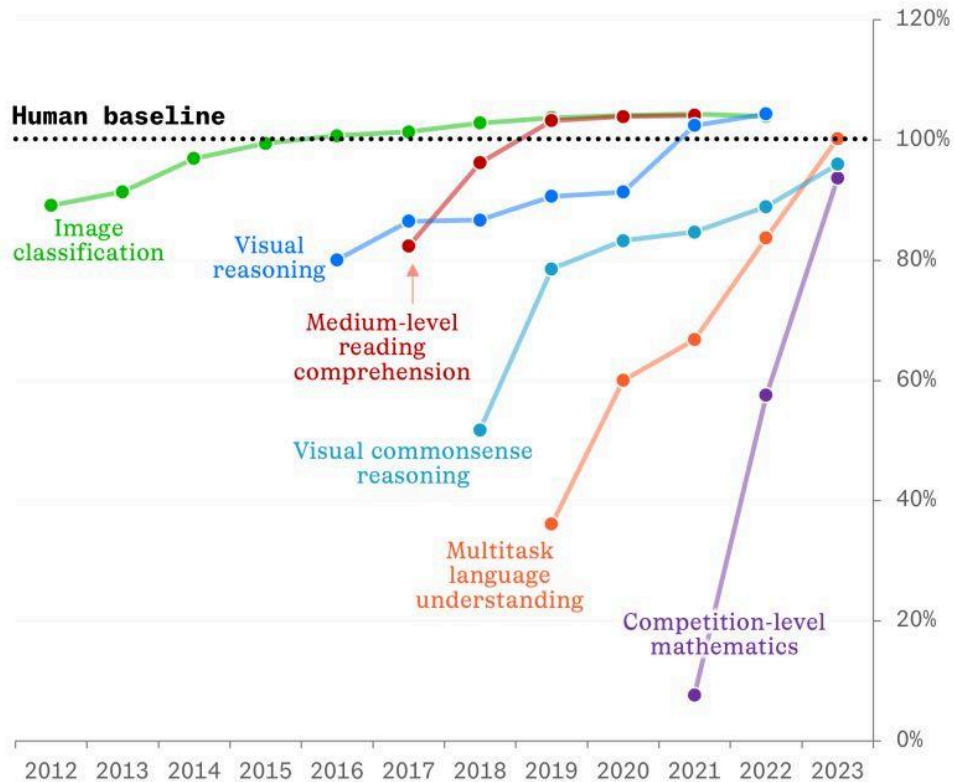
“Are we asking the wrong questions of ChatGPT?” That was the headline of an April 15, 2024, article in *The Chronicle of Higher Education*. While many educators have been concerned about policing artificial intelligence (AI), we may be missing key opportunities to leverage AI as a tool for extending learning, thinking, and problem solving. In this collaborative discussion, participants will be invited to share questions, concerns, and ideas for leveraging AI in both formal and nonformal educational settings. The context of agricultural education (broadly defined) will be the focus, placing particular interest on practices and strategies that may allow graduates and communities to better manage, interpret, and share streams of data in ways that foster improved decision-making. Both novice and experienced users of AI will be encouraged to engage in the discussion and exploration.

Background Resources for Consideration

MAN VS. MACHINE

AI Models Are Improving Every Year

AI Technical Performance [Selected measures, 100% = human baseline]



CHARTR

Source: Stanford University AI Index Report 2024

- [AI Index Report 2024 – Artificial Intelligence Index](#)
- [By teaching AI how to learn, students learn more themselves \(opinion\)](#)
- [Are We Asking the Wrong Questions About ChatGPT?](#)
- [Artificial Intelligence | Harvard Business Publishing Education](#)
- [Student Perspectives on Generative AI](#)
- [New ChatGPT eyed for better learning at universities](#)
- [Navigating the Jagged Technological Frontier: Field Experimental Evidence of the Effects of AI on Knowledge Worker Productivity and Quality](#)
- [More Useful Things: AI Resources](#)
- [Tyler Granberry's resources on "Agriculture's Other AI: Artificial Intelligence for Teaching and Learning"](#)

Multifunction AI Tools for Education

- <http://humy.ai> – Humy - An AI app that allows lifelike conversations with historical figures for educational purposes.
- <http://play.ht> - Play.HT - An AI voice generator that converts text to natural-sounding speech across languages and accents.
- <http://heygen.com> - HeyGen – An AI-powered video creation platform that creates AI video avatars.
- <https://breezyta.com/> – Breezy TA – A website with AI-powered teaching tools, including a free lesson plan tool.

Literature Review and Research Assistance

- Elicit - <http://elicit.org> - A tool that helps researchers analyze academic papers at high speed using AI.
- Scholarcy - <https://www.scholarcy.com/> - Summarizes and evaluates research documents to help researchers quickly digest information from papers.
- Consensus - <https://consensus.app/> - Helps researchers find relevant papers without needing exact keyword matches, extract key insights, brainstorm ideas, and classify texts - similar functionality to Elicit.
- Scite.ai - <https://scite.ai/> - Provides contextualized citations showing whether claims made in a paper have been corroborated or refuted by other studies. Useful for literature reviews.
- Research Rabbit - <https://researchrabbit.ai/> - Recommends relevant papers based on the user's interests and allows visualizing research networks. Dubbed the "Spotify of research."
- ChatPDF - <https://www.chatpdf.com/> - Allows uploading PDFs and asking natural language questions to get summaries and extract information from research papers.
- Semantic Scholar - <https://www.semanticscholar.org/> - AI-powered search and discovery tool that helps discover hidden connections and links between research topics and recommends similar papers based on saved research.

Writing and Analysis Assistance

- Cohere AI - <https://cohere.ai/> - Provides APIs to integrate natural language processing capabilities like text generation, summarization, and analysis into applications.
- AskPaper - <https://askpaper.cn/> - Allows uploading papers and asking questions in natural language to extract relevant information powered by large language models.
- HeyScience - <https://hey.science/> - AI research assistant to search papers, get summaries, and get feedback on manuscripts before submission.
- Trinka - <https://www.trinka.ai/> - AI-powered writing assistant created with academic writing in mind, identifying errors in technical and scientific writing and ensuring compliance with style guides.

Data and Experiment Creation

- Mostly.AI - <https://mostly.ai/> - Simulates synthetic data based on provided datasets, useful for expanding limited data.
- ChatGPT - <https://chat.openai.com/> - Can be used to generate vignettes, survey items, and other materials for experiments by providing controlled prompts.

Research Organization and Collaboration

- Bit.ai - <https://bit.ai/> - Cloud-based collaborative platform that helps identify, save, and share relevant research, including interactive and media-rich content, in real-time with co-researchers.

Opportunities for Further Sharing

- *Agricultural Education* magazine November/December issue on “Empowering Educators: Integrating AI in Agricultural Classrooms.” For more information, contact co-editors, Courtney Meyers and Kylie Harlan.