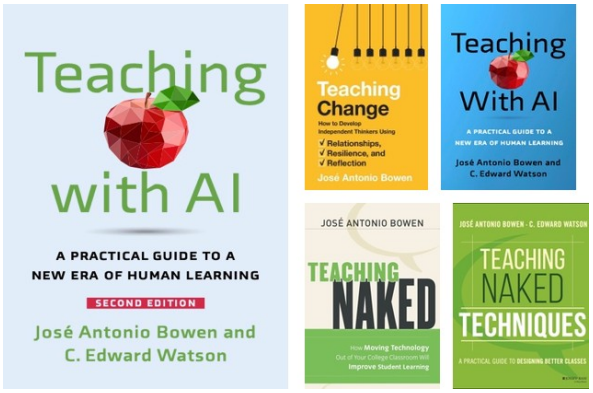
Are We Asking the Right Questions about Human Thinking and AI?

SLIDES & CITATIONS

José Antonio Bowen



Get the 2nd Edition of Teaching with AI.
Discount code HTAI25 = 30% off at JHUP.
WebSite: https://WeTeachWithAI.com/
This doc was prepared by Claude using the images, text and notes from my ppt deck.

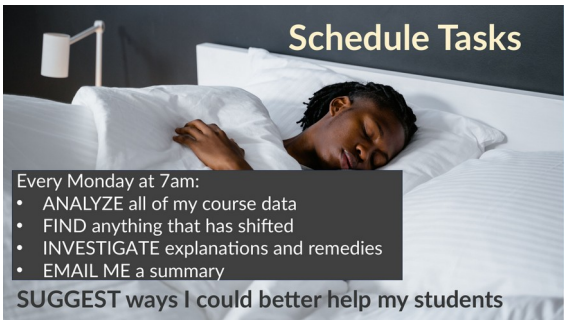
Where's Rigoletto?

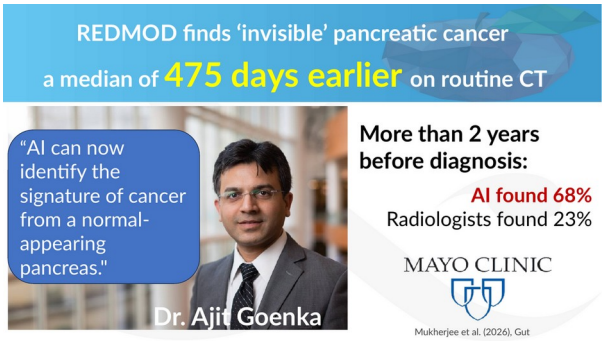
(That you can figure out on your own.)

WE ARE ALREADY ASKING A LOT OF GOOD QUESTIONS (slide 3)

How should we regulate AI?
Can we reduce the climate impact?
What (if any) AI use is ethical?
How do we manage privacy?
Do we need to provide access?
What about students who object?

HOW IS AI CHANGING WHAT IS POSSIBLE?

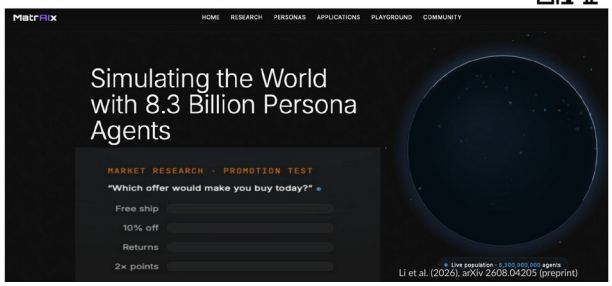




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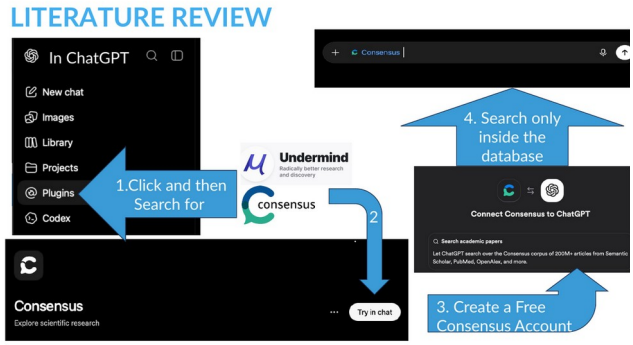
AGA News. (2026, June). AI model flags pancreatic cancer on CT more than a year before diagnosis. [overall test-set sensitivity 73.0% vs 38.9% for radiologists; specificity 81.1%] https://news.gastro.org/issues/2026/june-2026/ai-model-flags-pancreatic-cancer-on-ct-more-than-a-year-before-diagnosis/

MatrAIx: Berkeley, Harvard and MIT researchers create synthetic test people from human profiles

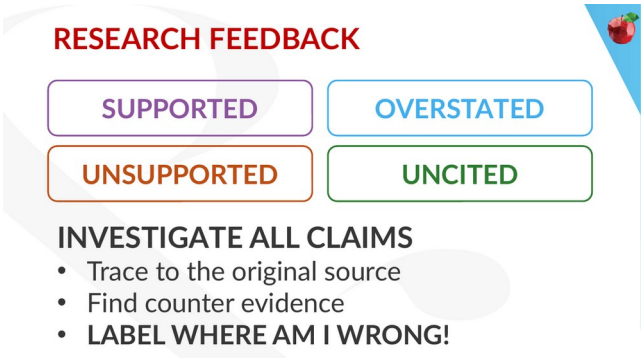


▸ MatrAIx

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▸ Consensus
▸ Undermind



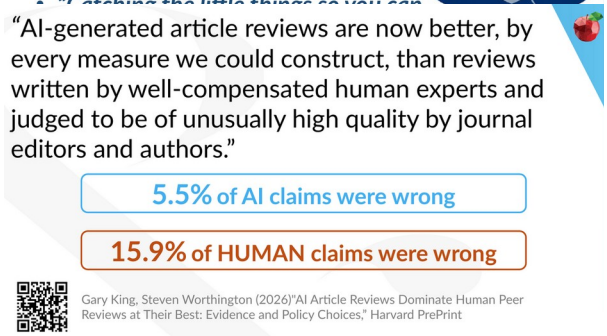
More on Research with AI workflow here:

https://weteachwithai.com/ai-research-workflow/

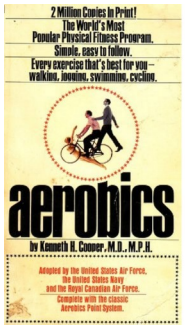


▸ Devil's Advocate (Duke Office of Information Technology)

▸ Getting started with Devil's Advocate



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Dr. Kenneth H. Cooper (1968)

"The streets would be littered with dead joggers"

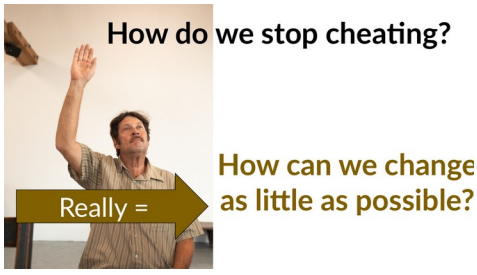
Cooper, K. H. (1968). Aerobics. M. Evans.

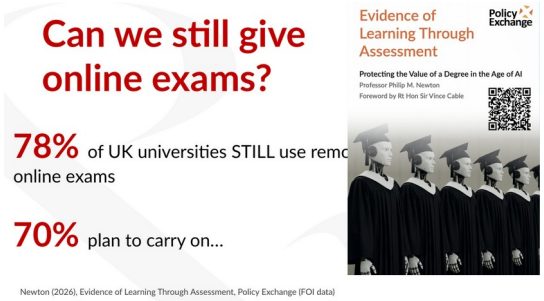
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WHAT DOES THIS MEAN FOR HUMAN COGNITIVE FITNESS?

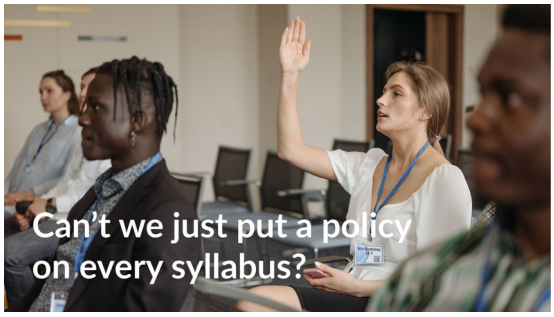
EIGHT QUESTIONS (slide 14)

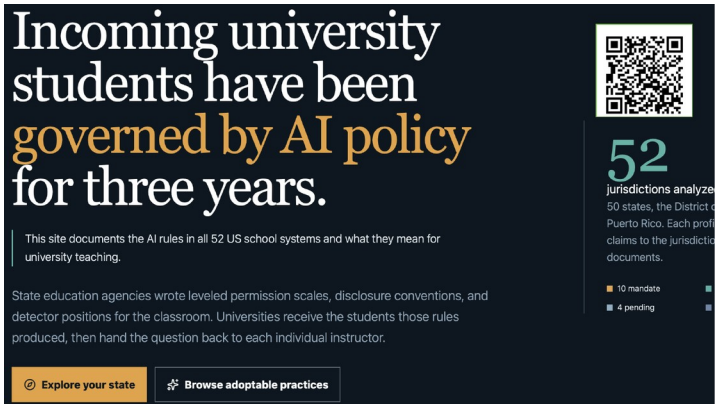
What are our principles and our practice?
How can we design better learning?
How will AI alter our disciplinary learning goals?
How might we amplify and raise standards?
Who will verify what AI produces and how?
How can we build more supportive relationships?
What will we do with the extra capacity?
What does AI mean for our curriculum?



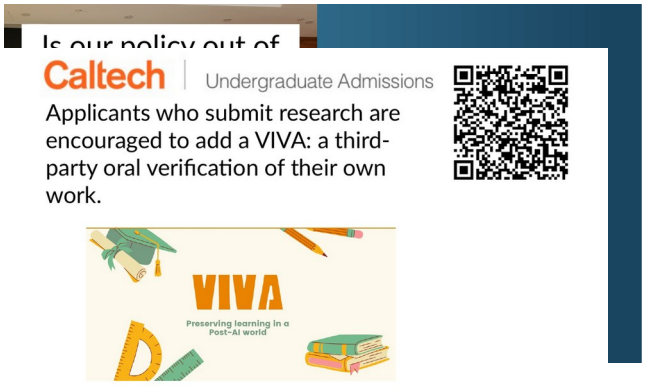


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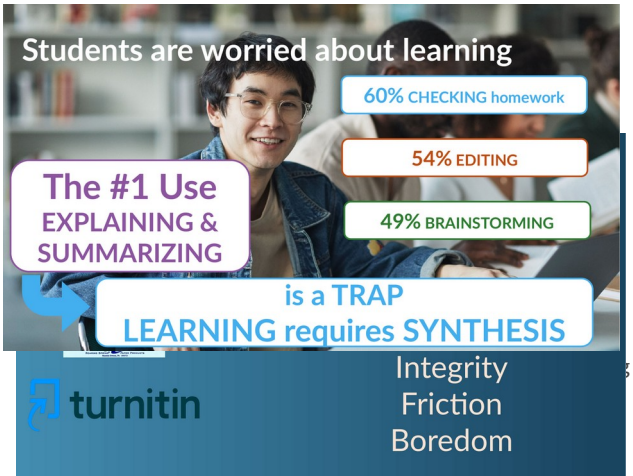
▶ State AI Policy Field Guide



▶



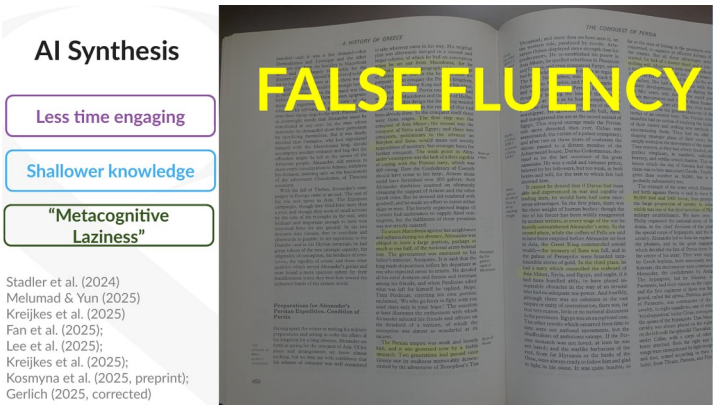
Caltech Undergraduate Admissions: Research Papers & Publications



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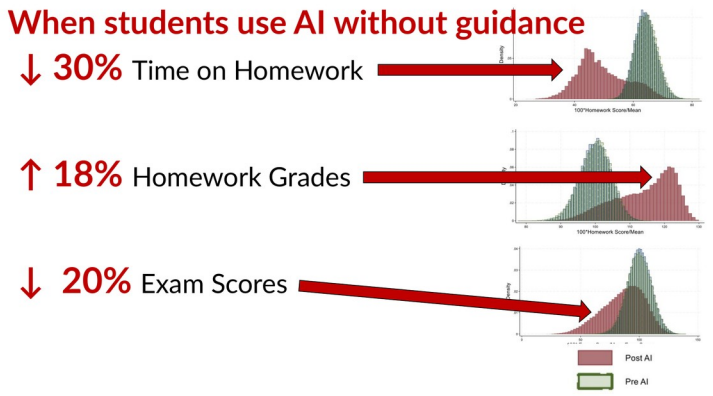
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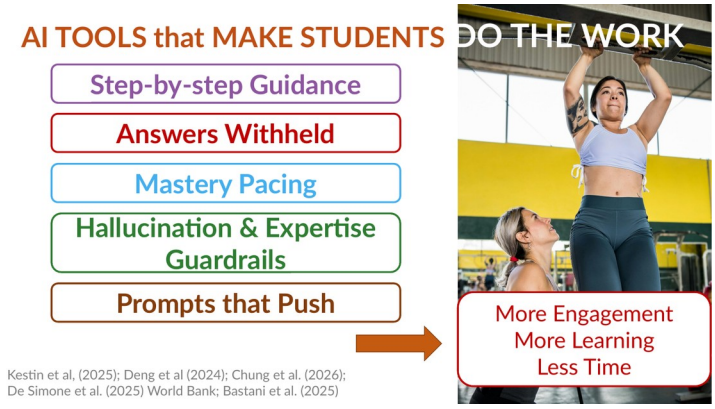
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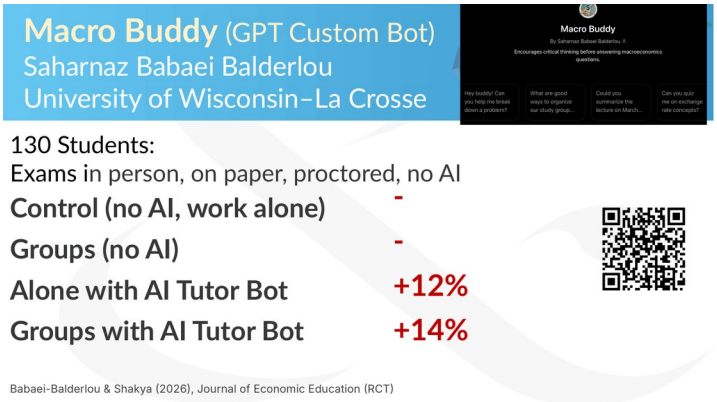
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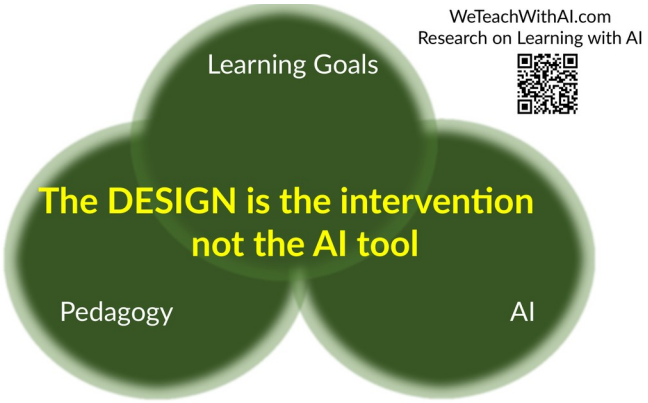


Saharnaz Babaei-Balderlou, University of Wisconsin–La Crosse.

▸ Macro Buddy (GPT custom bot)

Babaei-Balderlou, S., & Shakya, S. (2026). Can structured AI tutoring and study groups improve learning outcomes? Evidence from a randomized controlled trial. The Journal of Economic Education, 1–18. [RCT, 4 sections, 130 students; the first randomized evidence of AI-enhanced learning in economics education] https://doi.org/10.1080/00220485.2026.2695361

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▸ Designing Learning with AI: findings, principles and examples

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LIMITS. The strongest evidence of harm comes from secondary students outside the United States (China, Turkey, Germany, the U.K.); the strongest evidence of benefit comes from elite, high-structure settings such as Harvard. The typical university classroom sits in the

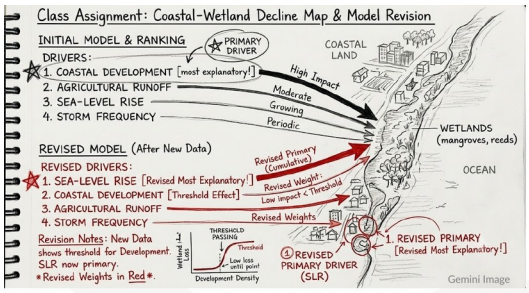
understudied middle, where age, selectivity and design are confounded. Most of these studies measure exam scores; we still lack long-term evidence about durable, transferable learning.



Could We Make Thinking More Visible?

Process Assignments

Pre-Game	PRIORITIZE – ANALYZE – RANK DECIDE – CHOOSE
Draft	WRITE – DEFEND
Feedback	NEW Something
After Party	REVISE – RESPOND – REFLECT --In the original document



Daniel R. Sanford, Director, CTL, Boise State University
Artificial Intelligence, Authentic Voices: AI & Assignment Design for Critical Thinking in Higher Education (2027) Bloomsbury

BUILD a map with causal arrows explaining coastal-wetland decline
RANK all four drivers by how much explanatory work each does
MARK the driver you judge most explanatory.
CONSIDER (one week later) more data on the same region.
ADD new drivers and revise the weights on your original map. Use a new color.

This Coastal Wetlands example is from a new book by Daniel R. Sanford, Director of the CTL at Boise State University.

▸ Daniel R. Sanford — Artificial Intelligence, Authentic Voices

Sanford, D. R. (2027, forthcoming). Artificial intelligence, authentic voices: AI & assignment design for critical thinking in higher education. Bloomsbury.

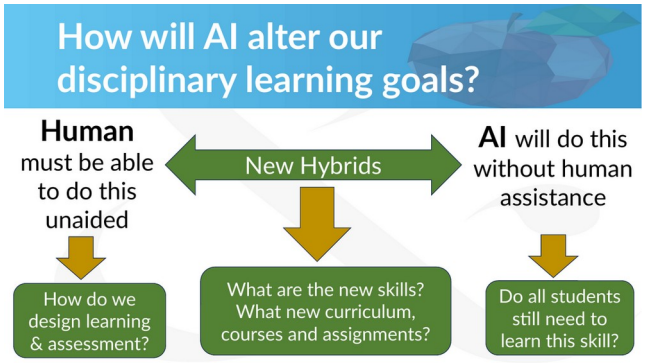
Curation, Thinking & Meaning

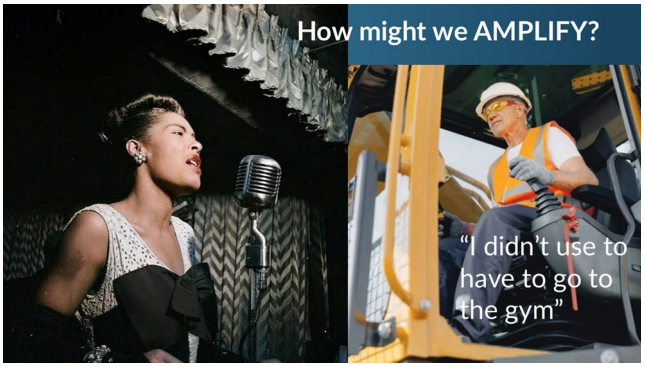
Ivy Linton Stabell: The Influence Project in First-Year English

- Pick any work of art you love.
- Prompt for a range of artistic ancestors.
- Learn about parent and grandparent works.
- Find three historical context subjects for each.
- Journal about the influences and differences.
- Conference with the professor.
- Write about this journey.

Ivy Linton Stabell, Associate Professor of English and Writing Coordinator, Iona University: the Influence Project in first-year English.

▸ Ivy Linton Stabell (Iona University)



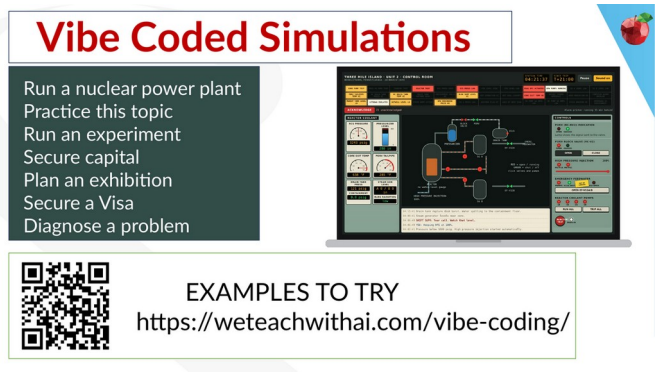




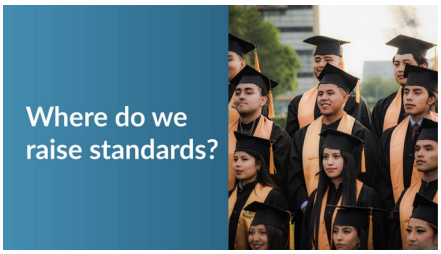
Retha Hill, New Media Innovation and Entrepreneurship Lab, Walter Cronkite School of Journalism and Mass Communication, Arizona State University.

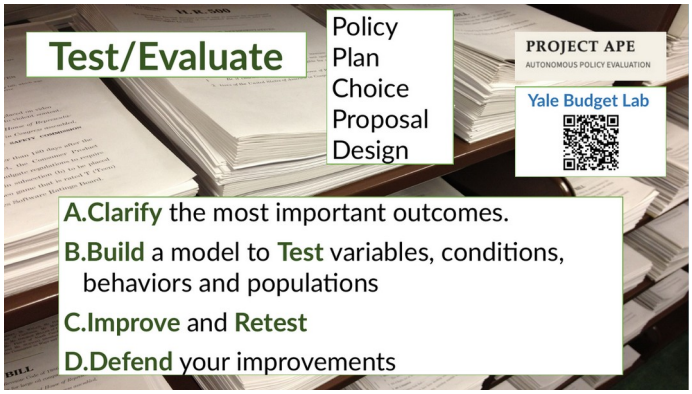
- Revolution Crossroads (Smithsonian)
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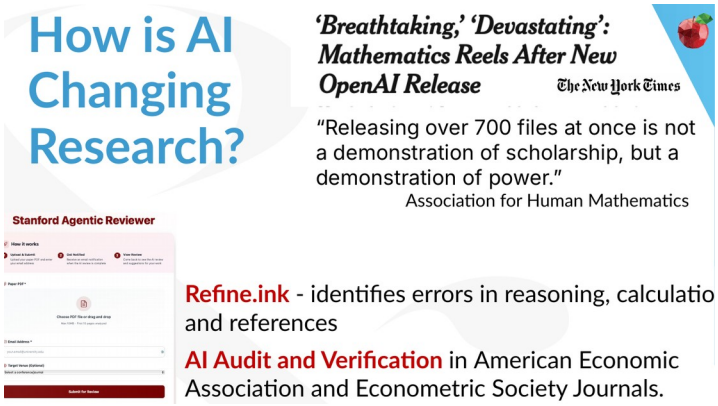


- Vibe coding examples





- Yale Budget Lab
- Project APE: Autonomous Policy Evaluation (Social Catalyst Lab)



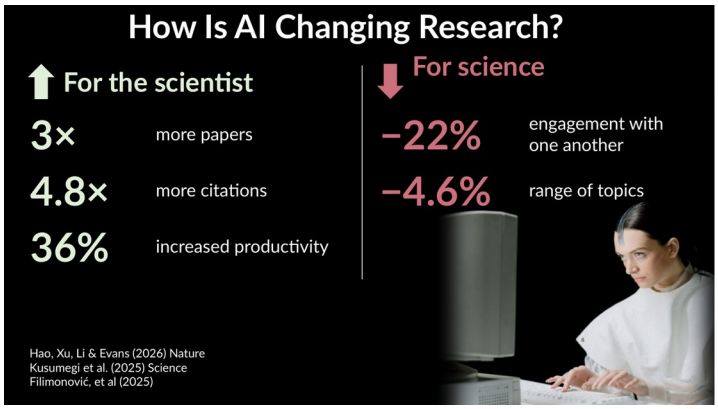
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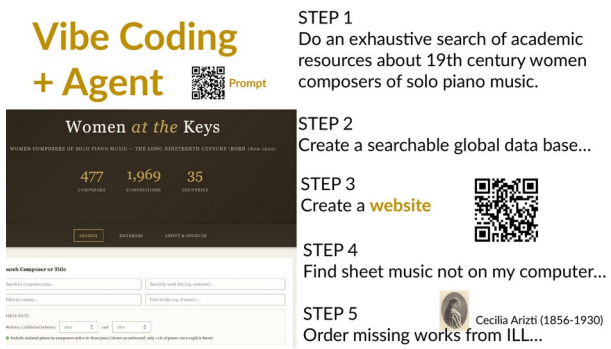


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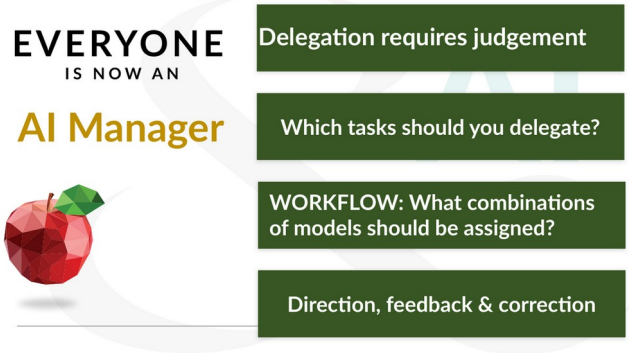
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Women at the Keys: a searchable database of women composers of solo piano music, built by a coding agent from a five-step prompt.



- Women at the Keys
- Vibe coding examples





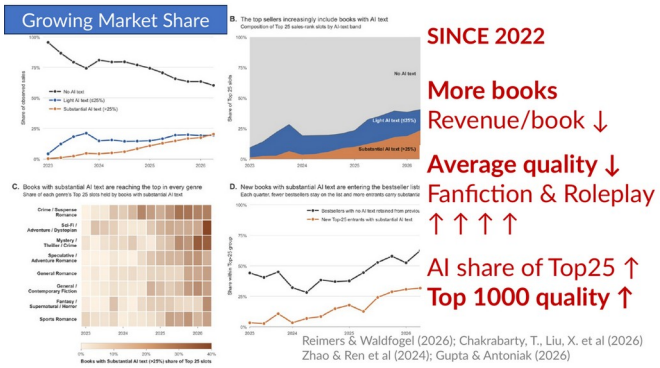


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▸ Books By People



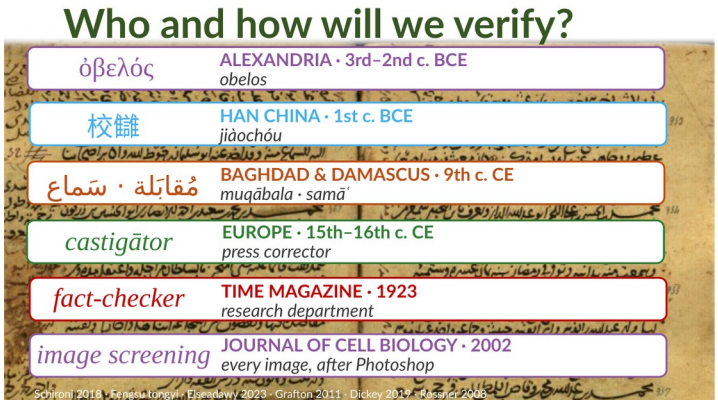
The fanfiction and roleplay line comes from the WildChat corpus: in more than 500,000 consented, English-language ChatGPT conversations, over a third involve generating fiction, especially fanfiction and erotica which generate what the authors call a "solipsistic reader-writer," “who both generates and consumes fiction within a closed conversational loop.”

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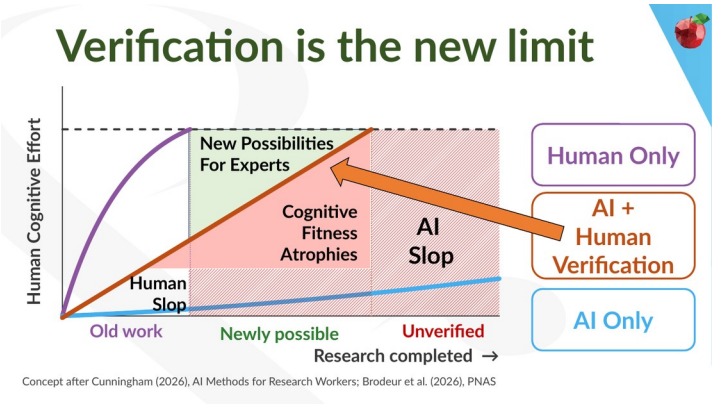
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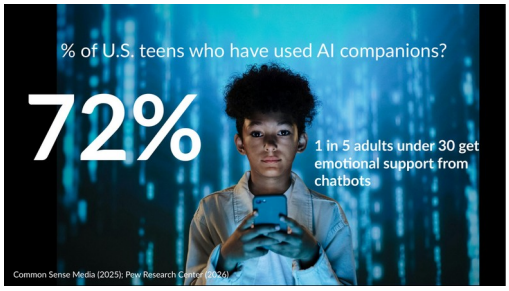


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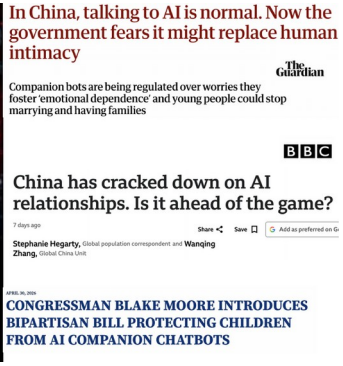




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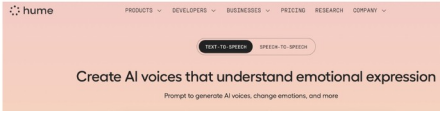
Dessa: Trained only on human conversation

▶ Dessa (Block): conversation demos

ElevenLabs Expressive Mode

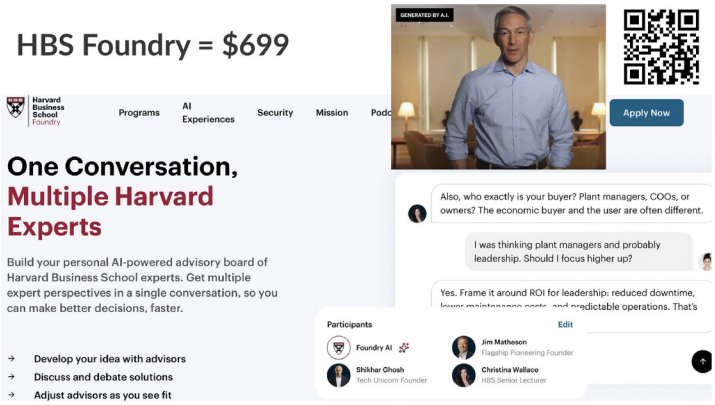
Sesame.com

Hume





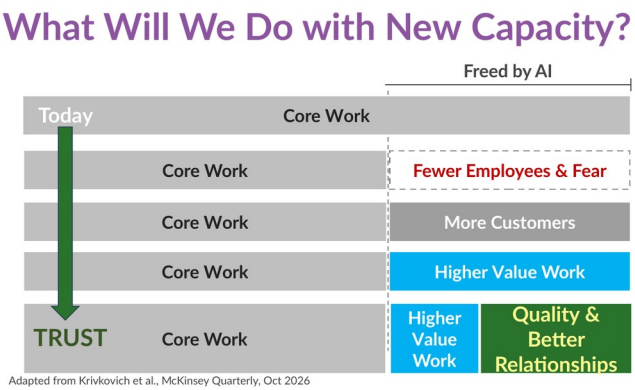
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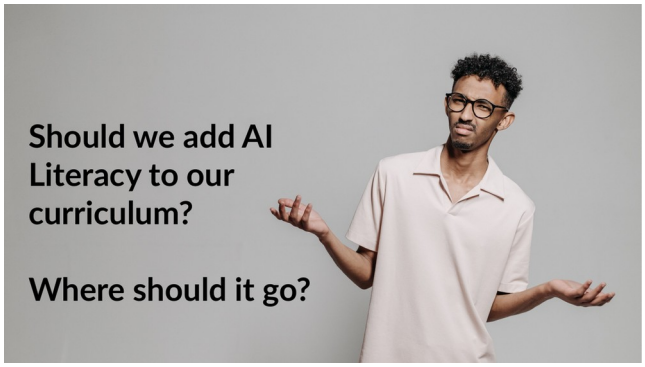
▸ HBS Foundry

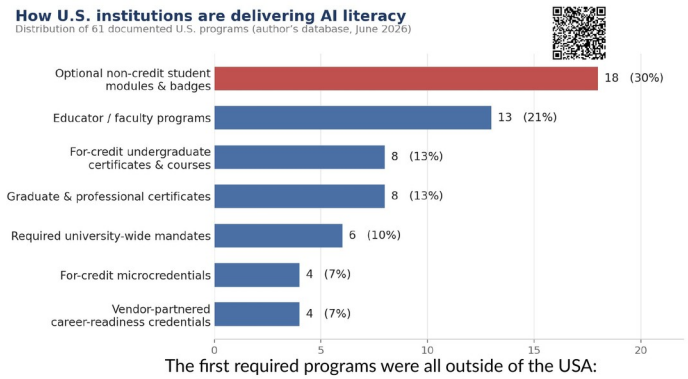
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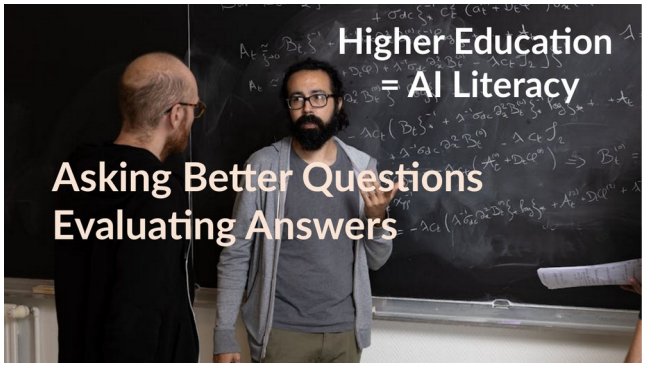
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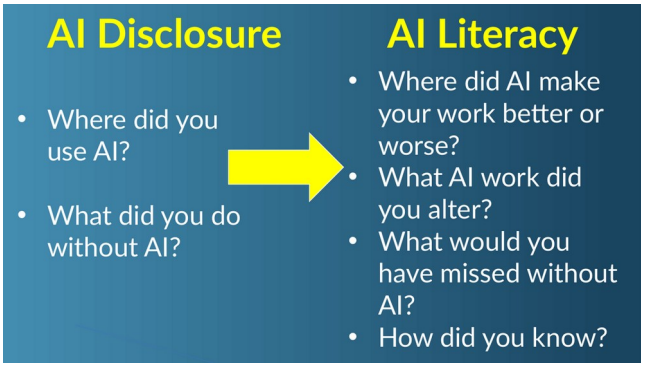




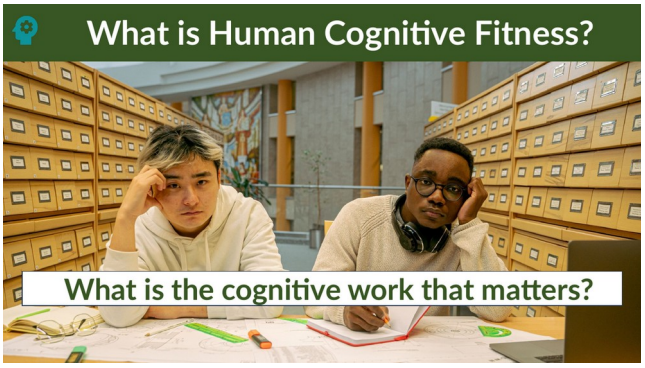
The first required programs were all outside of the USA:
Korea, Japan, China, University of Johannesburg

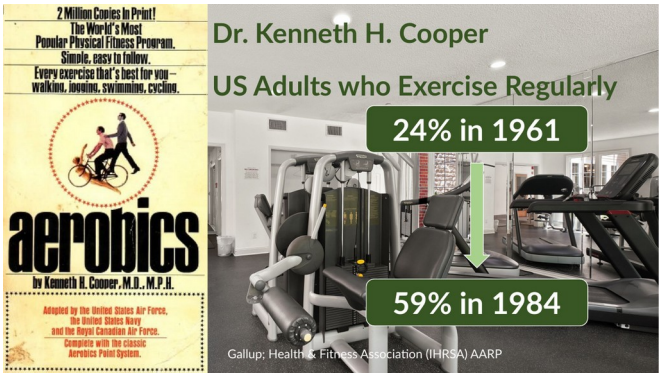
▶ AI literacy programs database (Bowen, June 2026)











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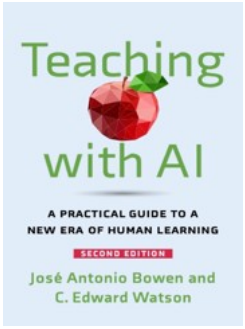


What new HUMAN question will you bring to your campus? (slide 67)

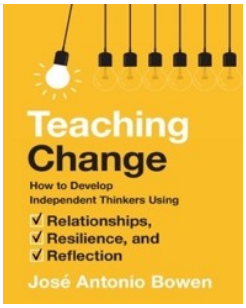


CITATIONS & RESOURCES

- WeTeachWithAI.com contains many many more resources, prompts, assignments and links. It is updated weekly if not daily.
- Buy the book at 30% off!
- Teaching with AI at Johns Hopkins University Press — code HTAI25 for 30% off
- Teaching with AI on Amazon



▸ If you don’t want to use AI, but want students to want to do things the hard way, then read Teaching Change: How to Develop Independent Thinkers Using Relationships, Resilience and Reflection.



▸ Teaching Change at Johns Hopkins University Press — code HTWN for 30% off
▸ Teaching Change on Amazon (often 25% off)