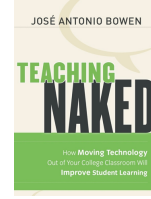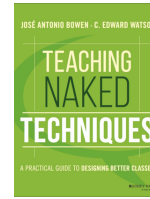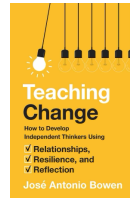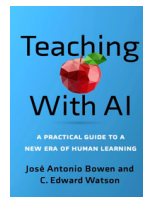# Teaching with AI
(Intro to Working and Teaching with AI)
José Antonio Bowen

AI is Changing **WORKING** and **THINKING**

EVERY job is going to change
AI can improve RELATIONSHIPS, SPEED and QUALITY
Weakest performers helped the most
Happier: Outsource the tedious
    "See the patient, not the technology" (Augmedix)
    "So you can do more of what AI can't." (CoCounsel)
    "It's like Grammerly for empathy"
WHICH human tasks will be most important?
    SOME tasks are worse with AI Assistance

https://teachingnaked.com/prompts/ Open different AI in different tabs
    Copy and Paste some prompts; Iteration/Dialogue

Research Assistants (with Semantic Scholar):
    • Methodology, Population, Sample Size, Outcomes
More AI for Faculty
ExplainPaper, Perplexity, Quivr, Humata.AI, ReadCube Papers

- Design a classroom exercise...
- Make this assignment more inclusive.
- What's unclear about these instructions?
- Put this into simpler terms for beginning students.
- Propose five options for a search committee/new major/new course...

A New Era of Human Thinking

AI is Changing **AVERAGE**

AI is the new C Grade (A, A, A-, B, B- & P at Harvard) Bodnick (2023, July 26). Chronicle of Higher Education
Is what we call cheating, what business calls progress?
    Why would anyone hire a C student if AI can do it better?
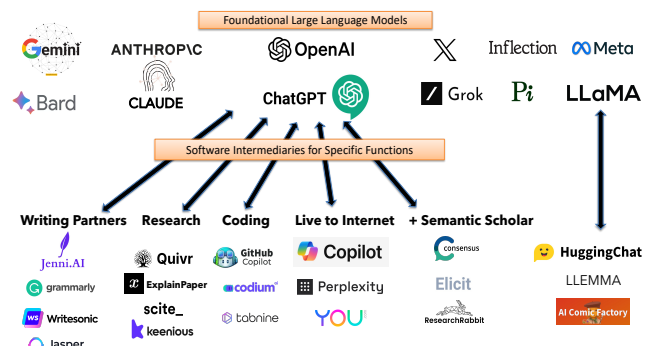   Can we articulate what our graduates will do that AI cannot?
    75% of students say they will continue to use AI even if it is banned
-I want you to write in my style. Here are some samples of my writing to emulate.
Shaw, C., Yuan, L., Brennan, D., Martin, S., Janson, N., Fox, K., & Bryant, G. (2023, October 23). *Tyton Partners.*

AI Policies

- When is AI use permitted or forbidden? Why?
- Must students share/disclose their AI prompts?
- How should AI use be credited?
- A warning about the limits of AI.
- Transparency regarding your planned usage of AI
  detection tools and how that information will be used.
- Statement about students' ultimate accountability.

AI is Changing **CREATIVITY**   **ASSIGNMENTS that use AI as a TOOL**

Innovation
1. Using examples from X, create 500 new Y
2. Pick the best 10; test & iterate
3. Demonstrate the viability of the best 3

Images: Midjourney, DreamStudio, Stable Diffusion, Dall-E (copilot is free), Craiyon, Freepik
- Teach an AI how to paint like Y. Clarify what stylistic elements are visible.
- Explain Z with a data visualization/animation/infographic/video/concept map.

Video: Synthesia, Kapwing, Heygen, invideo.io and Pika (free)
- Transform the equation and molecular structures provided into a video.

Case Studies and Text Games
- Create a graphic novel about X using AI Comic Factory from Hugging Face.
- Develop an interactive fiction story, case study or text-based adventure game using Quest or Squiffy
- Design a video game that helps players learn Z using Scenario, Promethean, Ludo.ai, Rosebud.ai

Role-Playing and Dialogues Pi.ai, HelloHistory.ai, PeopleAI, Character.ai
- Have a conversation with an historical figure/practice patient. Save and upload your conversation.

Writing and VERSION HISTORY
- Improve this draft; compare these good/bad summaries; change the voice
- TRACK CHANGES in Word, Google Docs, Lex.page or Rumi Essay
- Free Chrome extensions: Revision History, Draftback

Presentations: slidesai.io, beautiful.ai, slidesgo.com
- Use an AI to help you prepare a presentation.
- You will need to present without notes.

Process Assignments
1. Ask an AI to write an essay/write code/draw an image/create a script/design an experiment/draft a press release/propose a new business/analyze data
2. Evaluate the results. Make a list of errors or how this result could have been better.
3. Adjust your prompt to improve the output.
4. Which result is best and why? What was your strategy to improve the prompt?
5. Take the best output and make it even better with human editing. (Track changes)
6. Describe for an employer what value you added to this process.

AI for Feedback and as Tutor
- What would make this essay/project better?
- I would like you to act as my personal tutor and teach me about subject X

ALL Assignments are now AI Assignments
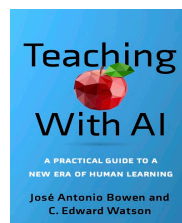
AI-Inclusive

Increase Ideas & Creativity
Collaborate with an Alien
Create Scenarios & Visualizations
Generate Drafts & Content
Find Errors and Improve Quality
Increase Feedback & Learning
Expand Research & Analysis
Predict Average Responses
New Types of Learning & Motivation

AI-Resistant

Local and Personal
Critique Results
Projects
Creativity and Collaboration
Video and Presentations
Class Conference
AI Detectors

AI-Transparent

Clear Policies
Define Quality
What can only Humans do?

Teaching With AI

A PRACTICAL GUIDE TO A
NEW ERA OF HUMAN LEARNING

José Antonio Bowen and
C. Edward Watson

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www.teachingnaked.com