Exploring Als for Teaching at Brandeis



LIBRARY and Learning

Organizers and Presenters

Center for Teaching and Learning (Irina Dubinina, faculty director) & The Library (Laura Hibbler, Deputy University Librarian)

- 1. Jim Morris, A&S, Biology
- 2. Lisa Rourke, A&S, UWP
- 3. William Flesch, A&S, English
- 4. Aimee Slater, Librarian
- 5. Kristen Turpin, A& S, Spanish
- 6. Tim Hickey, A&S, COSI
- 7. Aldo Musacchio, IBS
- 8. Ian Roy, MakerLab and IBS

Key concepts

- AI (Siri, Alexa, various bots for chatting with sales people) and software with AI components (Grammarly):
 - can be both rule-based (where explicit rules are programmed) and machine learning-based (where algorithms learn patterns from data).

• **Generative AI**: "computer systems that can produce … various forms of traditionally human expression, in the form of digital content including language, images, video, and music" (MLA/CCCC Working Paper, 2023).

• **AGI**: artificial *general* intelligence = stuff of science fiction



• Should we learn what is already happening in our disciplines? How are genAls affecting the work in our fields - positively and negatively? What guidelines do our fields have?

- Do we need to rethink our epistemologies and engage with colleagues and students in serious epistemological conversations?
 - e.g., what is creativity in the age of GenAI? what is integrity? what is authorship?

What is creativity?





What is authorship?



- Our students will be shaping the AI world → do we have an imperative to give them moral reasoning capabilities so that they can use these tools ethically and responsibly?
- Machines are no longer instruments; should we think about the education and the future world in terms of *human-machine collaboration* (Human Intellect + Artificial Intellect)?
- Should we rethink what it means to be a student today?
 - Students as autonomous subjects before; today they are *networked subjects* and *humans with augmented skills.*

Sid Dobrin, Professor of English, University of Florida

"Like writing and coding before it, prompt engineering is an **emergent form of thinking**. It lies somewhere between conversation and query, between programming and prose. It is the one part of this fast-changing, uncertain future that feels distinctly human."

Charlie Warzel, "<u>The Most Important Job Skill of This Century: Your work future</u> <u>could depend on how well you can talk to AI</u>" the Atlantic (Feb 8, 2023)

Recommended reads

- MLA and CCCC Task Force on Writing and AI
- Minerva Project's White Paper, *Integrating Artificial Intelligence: Key* <u>Strategies for Higher Education</u>
- <u>Sixty ideas for ChatGPT assignments (UCF)</u> (created by faculty for faculty)

- Detection tools: unreliable, dangerous (?), biased;
- Detection based on our expertise: unreliable, time consuming, uncomfortable (?)

- Should we move the focus of conversations from integrity to quality/authentic/innovative/multimodal assessments?
- Do we need to rethink our approaches to assessment, task design, and grading?

How should faculty respond to Als

- Educating yourself before educating students: how do these tools work in your discipline?
- Communication with students: regular conversations with students about why we want them to do a particular assignment and what we are looking for
- Redesign traditional tasks so as to deter students from going to Als
- Change and adapt grading approaches:
 - Use rubrics for evaluation (process over product)
 - Ask students to have some kind of an <u>AI attestation form</u> with every written assignment
 - Introduce writing for benchmarking: ask students to submit writing samples produced in-person by hand
- Consider incorporating GenAl tools in assignments and teach students GenAl literacy as well as ethical and effective uses of these tools

Other uses of gen-Als in Higher Ed

• Als supporting students

- Helping students practice and prepare for assessments
- Differentiated tasks for learning accommodations or multi-level classrooms
- Develop student study skills

• Als supporting faculty

- Differentiating instruction for learning accommodations or multi-level classrooms
- Creating and/or refining lesson plans
- Creating case studies and/or learning scenarios
- Modifying test questions
- Creating or designing evaluation rubrics

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Be a part of the conversation as we discuss the impact that artificial intelligence will have on teaching and learning in colleges and universities.

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Generative Al

- LLMs (large language models) and one LLMs is called ChatGPT ("generative pre-trained transformer")
 - uses probability calculations to predict what the next word is
 - "trained" on vast bodies of preexisting text
 - all of the text a model generates is original (i.e., it represents combinations of letters and words that generally have no exact match in the training documents); the content is unoriginal (i.e., it is determined by patterns in its training data)
 - the same model can generate different sequences in response to the same input prompt
 - LLMs **do not** *think;* they **predict** and can mimic the writing/thinking of sentient humans fairly convincingly.