

Artificial Intelligence 101: Generative AI and Higher Education

A. P. Anderson, March 22, 2024

Recommended Further Reading & Viewing

General Resources

Maslej, N., Fattorini, L., Brynjolfsson, E., Etchemendy, J., Ligett, K., Lyons, T., Maniyka, J., Ngo, H., Niebles, J. C., Parli, V., Shoham, Y., Wald, R., Clark, J., & Perrault, R. (2023 April). The AI Index 2023 Annual Report. *AI Index Steering Committee, Institute for Human-Centered AI, Stanford University*.
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Academic Integrity and Higher Education

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Nicholson, H. (2024, March 11). Considering image generation and education today. *Jisc: Artificial Intelligence*. <https://nationalcentreforai.iiscinvolve.org/wp/2024/03/11/considering-image-generation-and-education-today/>

Training, Data, and Output

Blouin, L. (2023, March 6). AI's mysterious 'black box' problem, explained. *University of Michigan-Dearborn News*. <https://umdearborn.edu/news/ais-mysterious-black-box-problem-explained>

Chiang, T. (2023, February 9). ChatGPT is a blurry JPEG of the web. *The New Yorker*.
<https://www.newyorker.com/tech/annals-of-technology/chatgpt-is-a-blurry-jpeg-of-the-web>

Isaacs-Thomas, B. (2023, January 12). How AI turns text into images. *PBS News Hour*.
<https://www.pbs.org/newshour/science/how-ai-makes-images-based-on-a-few-words>

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Narla, A., Kuprel, B., Sarin, K., Novoa, R., & Ko, J. (2018, September 20). Automated classification of skin lesions: From pixels to practice. *Journal of Investigative Dermatology*, 138(10), 2108-2110.
<https://doi.org/10.1016/j.jid.2018.06.175>

Copyright and Intellectual Property

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<https://www.insidehighered.com/news/tech-innovation/2023/08/22/ai-raises-complicated-questions-about-authorship>

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<https://www.federalregister.gov/documents/2023/03/16/2023-05321/copyright-registration-guidance-works-containing-material-generated-by-artificial-intelligence>

Bias

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- See also: <http://gendershades.org/>

Dastin, J. (2018, October 10). Amazon scraps secret AI recruiting tool that showed bias against women. *Reuters*. <https://www.reuters.com/article/idUSL2N1VB1FQ/>

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Ulrich, A., Arai, H., Fortineau, O., Gambis, S., Hara, S., & Tapp, A. (2019, May 15). Fairwashing: the risk of rationalization. *arXiv.org [pre-print]*. <https://doi.org/10.48550/arxiv.1901.09749>

Election Misinformation

Burke, G. (2024, February 27). Chatbots' inaccurate, misleading responses about US elections threaten to keep voters from polls. *AP News*. <https://apnews.com/article/ai-chatbots-elections-artificial-intelligence-chatgpt-falsehoods-cc50dd0f3f4e7cc322c7235220fc4c69>

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Swenson, A. & Chan, K. (2024, March 14). Election disinformation takes a big leap with AI being used to deceive worldwide. *AP News*. <https://apnews.com/article/artificial-intelligence-elections-disinformation-chatgpt-bc283e7426402f0b4baa7df280a4c3fd>

Environmental Impact

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See also: p. 120-122 of [Stanford's AI Index 2023 Annual Report](#) (also listed under General Resources)

Human Labor

Meaker, M. (2023, September 11). These prisoners are training AI. *Wired*. <https://www.wired.com/story/prisoners-training-ai-finland/>

Perrigo, B. (2023, January 18). OpenAI used Kenyan workers on less than \$2 per hour to make ChatGPT less toxic. *TIME*. <https://time.com/6247678/openai-chatgpt-kenya-workers/>

Other Misuse of AI

Urbina, F., Lentzos, F., Invernizzi, C., & Ekins, S. (2022, March 7). Dual-use of artificial-intelligence-powered drug discovery. *Nature Machine Intelligence*, 4, 189-191. <https://doi.org/10.1038/s42256-022-00465-9>