

REFERENCES

- Abrams, Z. (2022). Student mental health is in crisis. Campuses are rethinking their approach. *American Psychological Association, Monitor on Psychology, 53*(7), Article 60. <https://www.apa.org/monitor/2022/10/mental-health-campus-care>
- Acar, O. A. (2023, June 6). AI prompt engineering isn't the future. *Harvard Business Review*. <https://hbr.org/2023/06/ai-prompt-engineering-isnt-the-future>
- Adlington A., & Eaton, S. E. (2021). *Contract cheating in Canada: Exploring legislative options* (Report No. 1880/114088). University of Calgary. <https://dx.doi.org/10.11575/PRISM/39367>
- Al Kuwaiti, A., Nazer, K., Al-Reedy, A., Al-Shehri, S., Al Muhanna, A., Subbarayalu, A. V., Al Muhanna, D., & Al Muhanna, F. A. (2023). A review of the role of artificial intelligence in healthcare. *Journal of Personalized Medicine, 13*(6), Article 951. <https://doi.org/10.3390/jpm13060951>
- American Association of Colleges and Universities. (2024a). *Essential learning outcomes*. <https://www.aacu.org/trending-topics/essential-learning-outcomes>
- American Association of Colleges and Universities. (2024b). *VALUE rubrics*. <https://www.aacu.org/initiatives/value-initiative/value-rubrics>
- American Association of Colleges and Universities. (2024c). *VALUE assignment design and diagnostic (ADD) tools*. <https://www.aacu.org/initiatives/value-initiative/assignment-design-and-diagnostic-tool>

- American Association of Colleges and Universities. (2024d). *Integrative learning and signature work*. <https://www.aacu.org/office-of-global-citizenship-for-campus-community-and-careers/integrative-learning>
- Anthropic. (2023, May 9). *Claude's constitution*. <https://www.anthropic.com/index/claude-constitution>
- Ardila, N. (2023, March 17). Artificial intelligence chatbots are slowly replacing human relationships. *Caplin News*. <https://caplinnews.fiu.edu/artificial-intelligence-chatgpt-openai-loneliness-relationships/>
- Azerbaijani, Z., Schoelkopf, H., Paster, K., Dos Santos, M., McAleer, S., Jiang, J. D., Biderman, S., & Welleck, S. (2023). *Llemma: An open language model for mathematics*. arXiv Labs. <https://doi.org/10.48550/arXiv.2310.10631>
- Bandura, A. (1997). *Self-efficacy: The exercise of control*. Freeman.
- Bankhead, C. (2023, July 28). Hallucination, fake references: Cautionary tale about AI-generated abstracts. *MedPage Today*. <https://www.medpagetoday.com/ophthalmology/generalophthalmology/105672>
- Bannon, M. T. (2023, June 22). How AI is changing the future of work. *Forbes*. <https://www.forbes.com/sites/marenbannon/2023/06/22/how-ai-is-changing-the-future-of-work/?sh=>
- Barkley, E. F., Major, C. H., & Cross, K. P. (2014). *Collaborative learning techniques: A handbook for college faculty*. Jossey-Bass.
- Beaty, R. E., & Johnson, D. R. (2021). Automating creativity assessment with SemDis: An open platform for computing semantic distance. *Behavior Research Methods*, 53, 757-780. <https://doi.org/10.3758/s13428-020-01453-w>
- Benabou, R., & Tirole, J. (2003). Intrinsic and extrinsic motivation. *Review of Economic Studies*, 70(3), 489-520. <http://dx.doi.org/10.1111/1467-937X.00253>
- Berman, H. M., Westbrook, J., Feng, Z., Gilliland, Z., Bhat, T. N., Weissig, H., Shindyalov, I. N., & Bourne, P. E. (2000). The protein data bank. *Nucleic Acids Research*, 28, 235-242. <https://doi.org/10.1093/nar/28.1.235>
- Bernstein, A. (2023, May 23). *Master the art of prompt writing: 6 tips to writing better prompts* [Video]. YouTube. <https://www.youtube.com/watch?v=cPf251bDKY0>
- Bharadwaj, P., Shaw, C., NeJame, L., Martin, S., Janson, N., & Fox, K. (2023). *Time for class 2023: Bridging student and faculty perspectives on*

- digital learning*. Tyton Partners. https://tytonpartners.com/time-for-class-2023/?utm_source=substack&utm_medium=email
- Bodnick, M. (2023, July 18). ChatGPT goes to Harvard and does better than you think! *Slow Boring*. https://www.slowboring.com/p/chatgpt-goes-to-harvard?utm_source=substack&utm_medium=email
- Bolger, K. (2023, September 28). How ChatGPT is putting college ghostwriters out of work. *The Walrus*. <https://thewalrus.ca/chatgpt-ghost-writers/>
- Bonawitz, E., Shafto, P., Gweon, H., Goodman, N. D., Spelke, E., & Schulz, L. (2010). The double-edged sword of pedagogy: Instruction limits spontaneous exploration and discovery. *Cognition*, 118(3), 322-330. <https://doi.org/10.1016/j.cognition.2010.10.001>
- Bond, J. (2023). *2022-2023 academic integrity report*. University of Maryland Division of Student Affairs, Office of Student Conduct. <https://umd.app.box.com/s/r1q0ljkwoe7uho3rzvogt3zh9o4d7gdy>
- Bowen, J. A. (2006). Teaching naked: Why removing technology from your classroom will improve student learning. *National Forum for Teaching and Learning*, 16(1), 1-5. <http://www.ntfl.com/>
- Bowen, J. A. (2011, December). *Beethoven the businessman* [Video]. TED Conferences. https://www.ted.com/talks/jose_bowen_beethoven_the_businessman
- Bowen, J. A. (2012). *Teaching naked: How moving technology out of your college classroom will improve student learning*. Jossey-Bass.
- Bowen, J. A. (2016). Building a socializing dorm to increase college student success. *Journal of College & University Student Housing*, 43(1), 28-39.
- Bowen, J. A., & Watson, C. E. (2017). *Teaching naked techniques: A practical guide to designing better classes*. Jossey-Bass.
- Bran, A. M., Cox, S., Schilter, O., Baldassari, C., White, A. D., & Schwaller, P. (2023). *ChemCrow: Augmenting large-language models with chemistry tools*. arXivLabs. <https://doi.org/10.48550/arXiv.2304.05376>
- Brenan, M. (2023, July 11). Americans' confidence in higher education down sharply. *Gallup News*. <https://news.gallup.com/poll/508352/americans-confidence-higher-education-down-sharply.aspx>
- Briggs, J., & Kodani, D. (2023). The potentially large effects of artificial intelligence on economic growth. *Goldman Sachs Global Economic Analyst Report*. <https://www.gspublishing.com/content/research/en/reports/2023/03/27/d64e052b-0f6e-45d7-967b-d7be35fabd16.html>

- Brinkman, B. (2013). An analysis of student privacy rights in the use of plagiarism detection systems. *Science and Engineering Ethics*, 19, 1255-1266. <https://doi.org/10.1007/s11948-012-9370-y>
- Brynjolfsson, E., Li, D., & Raymond, L. (2023). *Generative AI at work* (Working Paper No. w31161). National Bureau of Economic Research. <https://doi.org/10.3386/w31161>
- Búi, C. (2023, September 21). Fueled in part by ChatGPT, academic integrity violations for 'unfair advantage' surge at Penn. *The Daily Pennsylvanian*. https://www.thedp.com/article/2023/09/penn-student-conduct-academic-integrity-cheating-plagiarism?utm_source=substack&utm_medium=email
- Burrow, A. L., Hill, P. L., & Sumner, R. (2016). Leveling mountains: Purpose attenuates links between perceptions of effort and steepness. *Personality and Social Psychology Bulletin*, 42(1), 94-103. <https://doi.org/10.1177/0146167215624196>
- Caulfield, J. (2023, June 2). Best AI detector: Free and premium tools compared. *Scribbr*. <https://www.scribbr.com/ai-tools/best-ai-detector/>
- Chalmers, D. (2020, July 30). GPT-3 and general intelligence. *Daily Nous*. <https://dailynous.com/2020/07/30/philosophers-gpt-3/#chalmers>
- Chechitelli, A. (2023, May 23). AI writing detection update from Turnitin's chief product officer. *TurnItIn*. <https://www.turnitin.com/blog/ai-writing-detection-update-from-turnitins-chief-product-officer>
- Chegg. (2023). *Study tool*. <https://www.chegg.com/study>
- Chen, T.-P. (2023, October 12). The annoying person in your work meeting might just be you. *The Wall Street Journal*. <https://www.wsj.com/lifestyle/careers/ai-meetings-work-feedback-bots-bc380d72>
- Chen, Z., Qing, J., Xiang, T., Yue, W., & Zhou, J. (2022). *Seeing beyond the brain: Conditional diffusion model with sparse masked modeling for vision decoding*. arXivLabs. <https://doi.org/10.48550/arXiv.2211.06956>
- Chickering, A., & Gamson, Z. (1987). Seven principles for good practice in undergraduate education. *AAHE Bulletin*, March, 3-7.
- Choi, J. H., Hickman, K. E., Monahan, A., & Schwarcz, D. (2023, March 15). ChatGPT goes to law school. *Social Science Research Network*. <http://dx.doi.org/10.2139/ssrn.4389233>

- Cline, S. (2023, July 20). How ChatGPT killed my discussion boards and prompted new prompts. *Times Higher Education/Inside Higher Education*. <https://www.timeshighereducation.com/campus/how-chatgpt-killed-my-discussion-boards-and-prompted-new-prompts>
- Coffey, L. (2023a, August 4). Law schools split on ChatGPT in admissions essays. *Inside Higher Education*. <https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2023/08/04/law-schools-split-using-chatgpt-admissions>
- Coffey, L. (2023b, November 14). AI voice clones and deepfakes: The latest presidents' engagement tools. *Inside Higher Education*. <https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2023/11/14/presidents-use-ai-voice-clones-and>
- Conaway, J. K., & Wiesen, T. (2023). Academic dishonesty in online accounting assessments—Evidence on the use of academic resource sites. *Issues in Accounting Education*, 38(4), 45-60. <https://doi.org/10.2308/ISSUES-2021-059>
- Cotton, D. R., Cotton, P. A., & Shipway, J. R. (2023). Chatting and cheating: Ensuring academic integrity in the era of ChatGPT. *Innovations in Education and Teaching International*, 1-12. <https://doi.org/10.1080/14703297.2023.2190148>
- Covey, S. R. (2004). *The 7 habits of highly effective people: Restoring the character ethic* (Rev. ed.). Free Press.
- Cummings, L. (2023). *AI syllabus language heuristic*. <https://gamma.app/public/AI-Syllabus-Language-Heuristic-guqykesli4ekki5?mode=doc>
- Deci, E. L., & Ryan, R. M. (2000). The “what” and “why” of goal pursuits: Human needs and the self-determination of behavior. *Psychological Inquiry*, 11, 227-268. https://doi.org/10.1207/S15327965PLI1104_01
- Desaire, H., Chua, A. E., Kim, M.-G., & Hua, D. (2023). Accurately detecting AI text when ChatGPT is told to write like a chemist. *Cell Reports Physical Science*, 4, Article 101672. <https://doi.org/10.1016/j.xcrp.2023.101672>
- Dhandra, S. (2023, September 16). High school senior: Why aren't more teachers embracing AI? *CNN Opinion*. <https://www.cnn.com/2023/09/16/opinions/ai-chatgpt-technology-chatbots-school-dhandra>
- Dreyfus, H. L. (1972). *What computers still can't do: A critique of artificial reason*. MIT Press.

- Eaton, L. (2023). *Syllabi policies for AI generative tools*. https://docs.google.com/document/d/1RMVwzjc1o0Mi8Blw_-JUTcXv02b2WRH86vw7mi16W3U/edit
- Eaton, S. E. (2021). *Plagiarism in higher education: Tackling tough topics in academic integrity*. Bloomsbury.
- Eaton, S. E. (2023, February 24). 6 tenets of postplagiarism: Writing in the age of artificial intelligence. *Learning, Teaching and Leadership*. <https://drsaraheaton.wordpress.com/2023/02/25/6-tenets-of-postplagiarism-writing-in-the-age-of-artificial-intelligence/>
- Eloundou, T., Manning, S., Mishkin, P., & Rock, D. (2023). *GPTs are GPTs: An early look at the labor market impact potential of large language models* (Working Paper No. 2303.10130). <https://ideas.repec.org/p/arx/papers/2303.10130.html>
- Eyink, J. R., Motz, B. A., Heltzel, G., & Liddell, T. M. (2019). Student experiences with automated corrective feedback technology. *Journal of Applied Research in Higher Education*, 11(2), 326-342. <https://doi.org/10.1108/JARHE-05-2018-0102>
- Fijačko, N., Gosak, L., Štiglic, G., Picard, C. T., & Douma, M. J. (2023). Can ChatGPT pass the life support exams without entering the American Heart Association course? *Resuscitation*, 185, Article 109732. <https://doi.org/10.1016/j.resuscitation.2023.109732>
- Fyfe, P. (2022). How to cheat on your final paper: Assigning AI for student writing. *AI and Society*, 38, 1395-1405. <https://doi.org/10.1007/s00146-022-01397-z>
- Gao, C. A., Howard, F. M., Markov, N. S., Dyer, E. C., Ramesh, S., Luo, Y., & Pearson, A. T. (2023). Comparing scientific abstracts generated by ChatGPT to real abstracts with detectors and blinded human reviewers. *npj Digital Medicine*, 6, Article 75. <https://doi.org/10.1038/s41746-023-00819-6>
- Garst, K. (2023, July 27). Claude 2 vs GPT-4 in 2023: Comparing the top AI models. *LinkedIn*. <https://www.linkedin.com/pulse/claude-2-vs-gpt-4-2023-comparing-top-ai-models-kim-garst/>
- Gee, J. P. (2005). *Why video games are good for your soul: Pleasure and learning*. Common Ground.
- Geyer, A. (2023, March 13). GPT-4: What you need to know and what's different from GPT-3 and ChatGPT. *Ax Semantics*. <https://en.ax-semantics.com/blog/gpt-4-and-whats-different-from-gpt-3>

- Ghaffary, S. (2023, September 21). Universities rethink using AI writing detectors to vet students' work. *Bloomberg*. <https://www.bloomberg.com/news/newsletters/2023-09-21/universities-rethink-using-ai-writing-detectors-to-vet-students-work>
- Glass, A. L., & Kang, M. (2019). Fewer students benefit from doing homework than during the 1960s. *Phi Delta Kappan*, 100(7), 53-56. <https://doi.org/10.1177%2F0031721719846889>
- Goel, A. K., & Polepeddi, L. (2016). *Jill Watson: A virtual teaching assistant for online education*. Georgia Institute of Technology. <http://hdl.handle.net/1853/59104>
- Goebel, C. (2023, October 17). Are robots writing college essays? *Look at It This Way*. <https://www.artsci.com/insights/strategic-insights-blog>
- Gorichanaz, T. (2023). Accused: How students respond to allegations of using ChatGPT on assessments. *Learning: Research and Practice*, 9(2), 183-196. <https://doi.org/10.1080/23735082.2023.2254787>
- Grant, N., & Metz, C. (2022, June 12). Google sidelines engineer who claims its A.I. is sentient. *The New York Times*. <https://www.nytimes.com/2022/06/12/technology/google-chatbot-ai-blake-lemoine.html>
- Greenberg, I. (2023). *Collections*. OBJKT. <https://objkt.com/profile/tz1SmFz7vPbLaCR9fetjFuhHpqB4EUhX6wfd/collections>
- Griffith, E. (2023, March 16). GPT-4 vs. ChatGPT-3.5: What's the difference? *PC Magazine*. <https://www.pcmag.com/news/the-new-chatgpt-what-you-get-with-gpt-4-vs-gpt-35>
- Grush, M., & Frydenberg, M. (2023, July 10). AI tools in education: Doing less while learning more. *CampusTechnology*. https://campus-technology.com/articles/2023/07/10/ai-tools-in-education-doing-less-while-learning-more.aspx?sra=ct_pulse_120723&oely_enc_id=3548G3906423B2X
- Guar, A. (2023, November 27). UMD records at least 50 AI-related academic integrity cases in 2022-23. *The Diamondback*. <https://dbknews.com/2023/11/27/umd-chatgpt-academic-integrity-cases/>
- Gupta, M. (2023, April 17). Harnessing the power of AI in the insurance sector. *Forbes*. <https://www.forbes.com/sites/forbestechcouncil/2023/04/17/harnessing-the-power-of-ai-in-the-insurance-sector/?sh=13426d77335d>
- Hamid, R. D., & Schisgall, E. J. (2023, June 21). CS50 will integrate artificial intelligence into course instruction. *The Harvard Crimson*.

- <https://www.thecrimson.com/article/2023/6/21/cs50-artificial-intelligence/>
- Hassabis, D., Kumaran, D., & Maguire, E. A. (2007). Using imagination to understand the neural basis of episodic memory. *Journal of Neuroscience*, 27(52), 14365-14374. <https://doi.org/10.1523/JNEUROSCI.4549-07.2007>
- Haverkamp, H. (2022, October 30). A teacher allows AI tools in exams—Here's what he learned. *The Decoder*. <https://the-decoder.com/a-teacher-allows-ai-tools-in-exams-heres-what-he-learned/>
- Heath, M. K., & Segal, P. (2021). What pre-service teacher technology integration conceals and reveals: “Colorblind” technology in schools. *Computers & Education*, 170, Article 104225. <https://doi.org/10.1016/j.compedu.2021.104225>
- Henderson, M. (2022, May 10). Radiology facing a global shortage. *Radiological Society of North America News*. <https://www.rsna.org/news/2022/may/global-radiologist-shortage>
- Hines, K. (2023, July 12). Claude 2 offers 100k context windows and file uploads. *Search Engine Journal*. <https://www.searchenginejournal.com/anthropic-launches-claude-2-with-100k-context-windows-file-uploads/491412/#close>
- Hoel, J. B., Parker, J., & Rivenburg, J. (2004). *Factors influencing persistence among nontraditional university students* (Working Paper No. 2004-001). SARUP Economics. <https://mospace.umsystem.edu/xmlui/handle/10355/490>
- Hoover, A. (2023, August 17). Use of AI is seeping into academic journals—And it's proving difficult to detect. *Wired*. <https://www.wired.com/story/use-of-ai-is-seeping-into-academic-journals-and-its-proving-difficult-to-detect/>
- Howard, J. (2023, February 21). Only 5.7% of US doctors are Black, and experts warn the shortage harms public health. *National Medical Association*. <https://www.nmanet.org/news/632592/Only-5.7-of-US-doctors-are-Black-and-experts-warn-the-shortage-harms-public-health.htm>
- Hsu, S., Shah, R. S., Senthil, P., Ashktorab, Z., Dugan, C., Geyer, W., & Yang, D. (2023). *Helping the helper: Supporting peer counselors via AI-empowered practice and feedback*. arXivLabs. <https://doi.org/10.48550/arXiv.2305.08982>

- Hu, K. (2023, February 2). ChatGPT sets record for fastest-growing user base—Analyst note. *Reuters*. <https://www.reuters.com/technology/chatgpt-sets-record-fastest-growing-user-base-analyst-note-2023-02-01/>
- Hui, L., de Bruin, A. B. H., Donkers, J., & van Merriënboer, J. J. G. (2022). Why students do (or do not) choose retrieval practice: Their perceptions of mental effort during task performance matter. *Applied Cognitive Psychology*, 36(2), 433-444. <https://doi.org/10.1002/acp.3933>
- Ibrahim, H., Asim, R., Zaffar, F., Rahwan, T., & Zaki, Y. (2023). Rethinking homework in the age of artificial intelligence. *IEEE Intelligent Systems*, 38, 24-27. <http://dx.doi.org/10.1109/MIS.2023.3255599>
- Ibrahim, H., Liu, F., Asim, R., Battu, B., Benabderrahmane, S., Alhafni, B., Adnan, W., Alhanai, T., AlShebli, B., Baghdadi, R., Bélanger, J. J., Beretta, E., Celik, K., Chaqfeh, M., Daqaq, M. F., El Bernoussi, Z., Fougne, D., de Soto, B. G., Gandolfi, A., . . . Zaki, Y. (2023). Perception, performance, and detectability of conversational artificial intelligence across 32 university courses. *Scientific Reports*, 13, Article 12187. <https://doi.org/10.1038/s41598-023-38964-3>
- Intelligent.com. (2023, June 9). One-third of college students used ChatGPT for schoolwork during the 2022-23 academic year. *Intelligent.com*. <https://www.intelligent.com/one-third-of-college-students-used-chatgpt-for-schoolwork-during-the-2022-23-academic-year/>
- Kahneman, D., Sibony, O., & Sunstein, C. R. (2021). *Noise: A flaw in human judgment*. Little, Brown Spark.
- Kalliamvakou, E. (2022, September 7). Research: Quantifying GitHub Copilot's impact on developer productivity and happiness. *GitHub Blog*. <https://github.blog/2022-09-07-research-quantifying-github-copilots-impact-on-developer-productivity-and-happiness/>
- Katz, D. M., Bommarito, M. J., Gao, S., & Arredondo, P. (2023, March 15). GPT-4 passes the bar exam. *Social Science Research Network*. <http://dx.doi.org/10.2139/ssrn.4389233>
- Kirchner, J. H., Ahmad, L., Aaronson, S., & Leike, J. (2023, January 31). New AI classifier for indicating AI-written text. *OpenAI Blog*. <https://openai.com/blog/new-ai-classifier-for-indicating-ai-written-text>
- Klein, E. (2023, July 11). A.I. could solve some of humanity's hardest problems. It already has: Demis Hassabis, the chief executive of

- DeepMind, discusses how A.I. systems can accelerate scientific research [Audio podcast episode]. In *The Ezra Klein Show*. The New York Times. <https://www.nytimes.com/2023/07/11/opinion/ezra-klein-podcast-demis-hassabis.html>
- Koivisto, M., & Grassini, S. (2023). Best humans still outperform artificial intelligence in a creative divergent thinking task. *Scientific Reports*, 13, Article 13601. <https://doi.org/10.1038/s41598-023-40858-3>
- Korinek, A. (2023). *Language models and cognitive automation for economic research* (NBER Working Paper No. 30957). National Bureau of Economic Research. <https://doi.org/10.3386/w30957>
- KP. (2023, September 13). People mocked me and said my essay-writing business was screwed when ChatGPT came out. So I fought like hell. *Insider*. <https://www.businessinsider.com/essay-tutoring-writing-business-experience-chatgpt-2023-9>
- Krakauer, D. (2016, September 5). Will A.I. harm us? Better to ask how we'll reckon with our hybrid nature. *Nautilus*. <https://nautil.us/will-ai-harm-us-better-to-ask-how-well-reckon-with-our-hybrid-nature-236098/>
- Kugel, S., & Hiltner, S. (2023, August 5). A new frontier for travel scammers: A.I.-generated guidebooks. *The New York Times*. <https://www.nytimes.com/2023/08/05/travel/ai-travel-scams.html>
- Kumar, R. (2023). Faculty members' use of artificial intelligence to grade student papers: A case of implications. *International Journal for Educational Integrity*, 19(9), 1-10. <https://doi.org/10.1007/s40979-023-00130-7>
- LaGorce, T. (2023, March 3). Need to write your vows? Chatbot wedding vows from ChatGPT and other AI. *The New York Times*. <https://www.nytimes.com/2023/03/03/fashion/weddings/chatbot-wedding-vows-chatgpt-ai.html>
- Lång, K., Josefsson, V., Larsson, A. M., Larsson, S., Högberg, C., Sartor, H., Hofvind, S., Andersson, I., & Rosso, A. (2023). Artificial intelligence-supported screen reading versus standard double reading in the Mammography Screening with Artificial Intelligence trial (MASAI): A clinical safety analysis of a randomised, controlled, non-inferiority, single-blinded, screening accuracy study. *Lancet Oncology*, 24(8), 936-944. [https://doi.org/10.1016/S1470-2045\(23\)00298-X](https://doi.org/10.1016/S1470-2045(23)00298-X)
- Langley, P. (2011). The changing science of machine learning. *Machine Learning*, 82(3), 275-279. <https://doi.org/10.1007/s10994-011-5242-y>

- Li, D., Bledsoe, J. R., Zeng, Y., Liu, W., Hu, Y., Bi, K., Liang, A., & Li, S. (2020). A deep learning diagnostic platform for diffuse large B-cell lymphoma with high accuracy across multiple hospitals. *Nature Communications*, 11, Article 6004. <https://doi.org/10.1038/s41467-020-19817-3>
- Liang, W., Yuksekogonul, M., Mao, Y., Wu, E., & Zou, J. (2023). GPT detectors are biased against non-native English writers. *Patterns*, 6, Article 100779. <https://doi.org/10.1016/j.patter.2023.100779>
- Liu, Y., Mittal, A., Yang, D., & Bruckman, A. (2022). Will AI console me when I lose my pet? Understanding perceptions of AI-mediated email writing. *CHI '22: Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems, USA*, Article 474. <https://doi.org/10.1145/3491102.3517731>
- Lu, H., & Page, S. E. (2004). Groups of diverse problem solvers can outperform groups of high-ability problem solvers. *Proceedings of the National Academy of Sciences, USA*, 101(46), 16385-16389. <https://doi.org/10.1073/pnas.0403723101>
- Lu, N., Liu, S., He, R., Wang, Q., & Tang, K. (2023). *Large language models can be guided to evade AI-generated text detection*. arXivLabs. <https://doi.org/10.48550/arXiv.2305.10847>
- Makamson, K. (2023). *Stress testing claims with perplexity* [Image]. Department of Composition and Rhetoric, University of Mississippi
- Martin, J. F., Jr. (2009). The goal of long division. *Teaching Children Mathematics*, 15(8), 482-487. <https://www.jstor.org/stable/41199562>
- Maslej, N., Fattorini, L., Brynjolfsson, E., Etchemendy, J., Ligett, K., Lyons, T., Manyika, J., Ngo, H., Niebles, J. C., Parli, V., Shoham, Y., Wald, R., Clark, J., & Perrault, R. (2023). *The AI index 2023 annual report*. AI Index Steering Committee, Institute for Human-Centered AI, Stanford University. <https://aiindex.stanford.edu/report/>
- Maynard, A. (2023, July 16). I asked ChatGPT to develop a college class about itself: Now, it's teaching it. *Slate*. <https://slate.com/technology/2023/07/chatgpt-class-prompt-engineering.html>
- Mazur, E. (1996). *Peer instruction: A user's manual*. Prentice Hall.
- McCabe, D. L., Butterfield, K. D., & Treviño, L. K. (2012). *Cheating in college: Why students do it and what educators can do about it*. Johns Hopkins University Press.
- McKinsey & Company. (2023, August 1). *The state of AI in 2023: Generative AI's breakout year*. McKinsey Analytics. <https://www>

- .mckinsey.com/capabilities/quantumblack/our-insights/the-state-of-ai-in-2023-generative-ais-breakout-year
- Mills, A. (2022). *AI text generators and teaching writing: Starting points for inquiry* [White paper]. Middlebury College. <https://sites.middlebury.edu/aiandwriting>
- Mills, A. (2023a). *A tale of two critiques*. AI Pedagogy Project, metaLAB at Harvard. <https://aipedagogy.org/assignment/a-tale-of-two-critiques/>
- Mills, A. (2023b, March 23). ChatGPT just got better. What does that mean for our writing assignments? *Chronicle of Higher Education*. <https://www.chronicle.com/article/chatgpt-just-got-better-what-does-that-mean-for-our-writing-assignments>
- Mnih, V., Kavukcuoglu, K., Silver, D., Graves, A., Antonoglou, I., Wierstra, D., & Riedmiller, M. (2015). Human-level control through deep reinforcement learning. *Nature*, 518(7540), 529-533. <https://doi.org/10.1038/nature14236>
- Mollick, E. (2023, December 7). An opinionated guide to which AI to use: ChatGPT anniversary edition. *One Useful Thing*. https://www.oneusefulthing.org?utm_source=navbar&utm_medium=web&r=2kukct
- Mollick, E. R., & Mollick, L. (2023a, March 7). Using AI to implement effective teaching strategies in classrooms: Five strategies, including prompts. *Social Science Research Network*. <http://dx.doi.org/10.2139/ssrn.4391243>
- Mollick, E. R., & Mollick, L. (2023b, September 25). Student use cases for AI. *HBP Education*. <https://hbsp.harvard.edu/inspiring-minds/student-use-cases-for-ai>
- Morrow, E., Zidaru, T., Ross, F., Mason, C., Patel, K. D., Ream, M., & Stockley, R. (2023). Artificial intelligence technologies and compassion in healthcare: A systematic scoping review. *Frontiers in Psychology*, 13, Article 971044. <https://doi.org/10.3389/fpsyg.2022.971044>
- Moorthy, S., Pogacar, R., Khan, S., & Xu, Y. (2018). Is Nike female? Exploring the role of sound symbolism in predicting brand name gender. *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing, USA*, 1128-1132. <https://doi.org/10.18653/v1/D18-1142>

- The Museum of Modern Art. (2022). *Refik Anadol: Unsupervised machine hallucinations* [Exhibition]. <https://www.moma.org/calendar/exhibitions/5535>
- National Association of Colleges and Employers (NACE). (2024). *What is career readiness?* <https://www.naceweb.org/career-readiness/competencies/career-readiness-defined>
- Nettleton, J., & Ravinsky-Mayer, M. (2023). *FY 2023 annual disciplinary report for the University of Pennsylvania*. University of Pennsylvania Center for Community Standards and Accountability (CSA) and the Office of the Associate Vice President for Equity and Title IX. https://csa.upenn.edu/system/files/private-file-upload/2023/07/fy_2023_annual_disciplinary_report_final_draft.pdf
- Newton, D. (2023). The cheat sheet. *Substack*. <https://thecheatsheet.substack.com/>
- Newton, P. M. (2018). How common is commercial contract cheating in higher education and is it increasing? A systematic review. *Frontiers in Education*, 3, Article 67. <https://doi.org/10.3389/feduc.2018.00067>
- Newton, P. M., & Essex, K. (2023). How common is cheating in online exams and did it increase during the COVID-19 pandemic? A systematic review. *Journal of Academic Ethics*. <https://doi.org/10.1007/s10805-023-09485-5>
- Nicol, D. (2022). *Turning active learning into active feedback: Introductory guide*. Active Feedback Toolkit, Adam Smith Business School, University of Glasgow. <https://doi.org/10.25416/NTR.19929290>
- Nicoletti, L., & Bass, D. (2023). Humans are biased: Generative AI is even worse. *Bloomberg Technology*. <https://www.bloomberg.com/graphics/2023-generative-ai-bias/>
- Norman, D. A. (1991). Cognitive artifacts. In J. M. Carroll (Ed.), *Designing interaction: Psychology at the human-computer interface* (pp. 17-38). Cambridge University Press.
- Noy, S., & Zhang, W. (2023). Experimental evidence on the productivity effects of generative artificial intelligence. *Science*, 381(6614), 187-192. <https://doi.org/10.1126/science.adh2586>
- OpenAI. (2022, November 30). Introducing ChatGPT research assistant! *OpenAI Blog*. <https://openai.com/blog/chatgpt/>

- Oregon State University (OSU) Ecampus. (2023). *Bloom's taxonomy revisited*. <https://ecampus.oregonstate.edu/faculty/artificial-intelligence-tools/blooms-taxonomy-revisited.pdf>
- Ott, M. (2023, May 2). Chegg's stock plunges on fears of competition from ChatGPT. *AP News*. <https://apnews.com/article/chegg-stock-shares-chatgpt-ai-a877423bd4a8f67b1494363fc81cf52a>
- Owens, H. (2015). Cheating within online assessments: A comparison of cheating behaviors in proctored and unproctored environment (Publication No. 19704) [Doctoral dissertation]. Mississippi State University Scholars Junction. <https://scholarsjunction.msstate.edu/td/1049/>
- Pak, J. (2023, August 21). Chinese animation house puts AI capabilities to the test. *Marketplace*. <https://www.marketplace.org/2023/08/21/generative-ai-animation-production-china/>
- Paris, F., & Buchanan, L. (2023, April 14). 35 ways real people are using A.I. right now. *The New York Times*. <https://www.nytimes.com/interactive/2023/04/14/upshot/up-ai-uses.html>
- Pavlik, J. V. (2023). Collaborating with ChatGPT: Considering the implications of generative artificial intelligence for journalism and media education. *Journalism and Mass Communication Educator*, 78(1), 84-93. <https://doi.org/10.1177/1077695823223607>
- Pep Talk Radio. (2023). In-depth review of Claude 2: The conversational AI assistant [Audio podcast episode]. In *Pep Talk Radio*. <https://www.peptalkradio.com/in-depth-review-of-claude-2/>
- Perez, S. (2023, November 3). Apple CEO Tim Cook says AI is a fundamental technology, confirms investments in generative AI. *TechCrunch+*. <https://techcrunch.com/2023/11/03/apple-ceo-tim-cook-says-ai-is-a-fundamental-technology-confirms-investments-in-generative-ai/>
- Perkins, M., Roe, J., Postma, D., McGaughran, J., & Hickerson, D. (2023). Detection of GPT-4 generated text in higher education: Combining academic judgement and software to identify generative AI tool misuse. *Journal of Academic Ethics*. <https://doi.org/10.1007/s10805-023-09492-6>
- Plagiarism Checker. (2021, July 23). 5 reasons why all students should use a plagiarism checker. *Plagiarism Checker Articles*. <https://www.plagiarismchecker.net/dev/5-reasons-plagiarism-checker/>

- Prabhu, A. (2023, August 21). London's YouMakr.ai raises \$500K for AI tool predicting exam questions. *TechFundingNews*. https://techfundingnews.com/londons-youmakr-ai-raises-500k-for-ai-tool-predicting-exam-questions/#google_vignette
- Purdue University Department of Computer Science. (2023). *Artificial intelligence degree requirements*. <https://www.cs.purdue.edu/undergraduate/curriculum/bachelor-ai.html>
- Quizlet. (2023, June 24). Quizlet's state of AI in education survey reveals teachers are surprise AI champions. *Cision PR Newswire*. <https://www.prnewswire.com/news-releases/quizlets-state-of-ai-in-education-survey-reveals-teachers-are-surprise-ai-champions-301884427.html>
- Rattner, S. (2023, July 10). Full speed ahead on A.I. Our economy needs it. *The New York Times*. <https://www.nytimes.com/2023/07/10/opinion/ai-economy-productivity-jobs-workers.html>
- Rho, E. H., Harrington, M., Zhong, Y., & Eberhardt, J. L. (2023). Escalated police stops of Black men are linguistically and psychologically distinct in their earliest moments. *Proceedings of the National Academy of Sciences, USA*, 120(23), e2216162120. <https://doi.org/10.1073/pnas.2216162120>
- Rock, D., & Grant, H. (2016, November 4). Why diverse teams are smarter. *Harvard Business Review*. <https://hbr.org/2016/11/why-diverse-teams-are-smarter>
- Rodrigues, S. (2023, November 1). *Announcing Future House* [Press release]. FutureHouse. <https://www.futurehouse.org/articles/announcing-future-house>
- Rose, K. (2023, July 11). Inside the white-hot center of A.I. doomerism. *The New York Times*. <https://www.nytimes.com/2023/07/11/technology/anthropic-ai-claude-chatbot.html>
- Russell Group. (2023, July 4). *Russell Group principles on the use of generative AI tools in education*. https://russellgroup.ac.uk/media/6137/rg_ai_principles-final.pdf
- Sadasivan, V. S., Kumar, A., Balasubramanian, S., Wang, W., & Feizi, S. (2023). *Can AI-generated text be reliably detected?* arXivLabs. <https://doi.org/10.48550/arXiv.2303.11156>
- Samuel, A. L. (1959). Some studies in machine learning using the game of checkers. *IBM Journal of Research and Development*, 3(3), 210-229. <https://doi.org/10.1147/rd.33.0210>

- Sayers, D. (2023, May 25). A simple hack to ChatGPT-proof assignments using Google Drive. *Times Higher Education*. <https://www.timeshighereducation.com/campus/simple-hack-chatgptproof-assignments-using-google-drive>
- Schade, M. (2023). Fine-tuning a classifier to improve truthfulness. *OpenAI*. <https://help.openai.com/en/articles/5528730-fine-tuning-a-classifier-to-improve-truthfulness>
- Schmieden, K. (2019, July 24). Feeling in control: Bank of America helps customers to “keep the change.” *This Is Design Thinking*. <https://thisisdesignthinking.net/2018/09/feeling-in-control-bank-of-america-helps-customers-to-keep-the-change/>
- Science News Staff. (2007, December 21). The runners-up. *Science*, 318(5858), 1844-1849. <https://doi.org/10.1126/science.318.5858.1844a>
- Shaikh, E. (2023, July 29). ChatGPT vs Claude 2: A detailed analysis (Expert view). *Demand Sage*. <https://www.demandsage.com/chatgpt-vs-claude/>
- Sharma, A., Lin, I. W., Miner, A. S., Atkins, D. C., & Althoff, T. (2023) Human-AI collaboration enables more empathic conversations in text-based peer-to-peer mental health support. *Nature Machine Intelligence*, 5, 46-57. <https://doi.org/10.1038/s42256-022-00593-2>
- Shaw, C., Yuan, L., Brennan, D., Martin, S., Janson, N., Fox, K., & Bryant, G. (2023, October 23). *Tyton Partners*. <https://tytonpartners.com/time-for-class-2023/genai-update>
- Shoshan, Y., Bakalo, R., Gilboa-Solomon, F., Ratner, V., Barkan, E., Ozery-Flato, M., Amit, M., Khapun, D., Ambinder, E. B., Oluyemi, E. T., Panigrahi, B., DiCarlo, P. A., Rosen-Zvi, M., & Mullen, L. A. (2022). Artificial intelligence for reducing workload in breast cancer screening with digital breast tomosynthesis. *Radiology*, 303(1), 69-77. <https://doi.org/10.1148/radiol.211105>
- Simonite, T. (2015, February 25). Google’s AI masters space invaders (But it still stinks at Pac-Man). *MIT Technology Review*. <https://www.technologyreview.com/2015/02/25/73349/googles-ai-masters-space-invaders-but-it-still-stinks-at-pac-man>
- Simonite, T. (2016, March 31). How Google plans to solve artificial intelligence. *MIT Technology Review*. <https://www.technologyreview.com/2016/03/31/161234/how-google-plans-to-solve-artificial-intelligence>

- Simonton, D. K. (1997). Creative productivity: A predictive and explanatory model of career trajectories and landmarks. *Psychological Review*, 104(1), 66-89. <https://doi.org/10.1037/0033-295X.104.1.66>
- Sjoquist, D. L., & Winters, J. V. (2012). State merit-based financial aid programs and college attainment. *Journal of Regional Science*, 55(3), 364-390. <https://doi.org/10.1111/jors.12161>
- Steipe, B. (2022, December 29). Just the principles . . . Three principles for AI in the academy. *Sentient Syllabus*. <https://sentientsyllabus.substack.com/p/just-the-basics>
- Stearns, S. A. (2001). The student-instructor relationship's effect on academic integrity. *Ethics and Behavior*, 11(3), 275-285. https://doi.org/10.1207/S15327019EB1103_6
- Stoner, J. (2023, March 22). What is Moore's law and how does it impact AI? *Unite.AI*. <https://www.unite.ai/moores-law/>
- Student Voice. (2021). *Prioritizing academic integrity among students*. College Pulse. <https://reports.collegepulse.com/student-voice-academic-integrity>
- Study.com. (2023). *Productive teaching tool or innovative cheating?* <https://study.com/resources/perceptions-of-chatgpt-in-schools>
- Sung, G., Guillain, L., & Schneider, B. (2023). Can AI help teachers write higher quality feedback? Lessons learned from using the GPT-3 engine in a makerspace course. In P. Blikstein, J. Van Aalst, R. Kizito, & K. Brennan, K. (Eds.), *Proceedings of the 17th International Conference of the Learning Sciences* (pp. 2093-2094). International Society of the Learning Sciences. <https://repository.isls.org//handle/1/10177>
- Suri, A., Tang, S., Kargilis, D., Taratuta, E., Kneeland, B. J., Choi, G., Agarwal, A., Anabaraonye, N., Xu, W., Parente, J. B., Terry, A., Kalluri, A., Song, K., & Rajapakse, C. S. (2023). Conquering the Cobb angle: A deep learning algorithm for automated, hardware-invariant measurement of Cobb angle on radiographs in patients with scoliosis. *Radiology: Artificial Intelligence*, 5(4). <https://doi.org/10.1148/ryai.220158>
- Swaak, T. (2023, September 27). 'We're all using it': Publishing decisions are increasingly aided by AI. That's not always obvious. *The Chronicle of Higher Education*. <https://www.chronicle.com/article/were-all-using-it-publishing-decisions-are-increasingly-aided-by-ai-thats-not-always-obvious>

- Takagi, Y., & Nishimoto, S. (2023, March 11). High-resolution image reconstruction with latent diffusion models from human brain activity. *BioRxiv*. <https://doi.org/10.1101/2022.11.18.517004>
- Teja, R. (2023, September 5). I made a video game using ChatGPT! My journey in developing an Android game from scratch. *Medium*. <https://levelup.gitconnected.com/i-made-a-video-game-using-chatgpt-9b0c03fcdcb>
- Terry, O. K. (2023, May 12). I'm a student. You have no idea how much we're using ChatGPT. No professor or software could ever pick up on it. *The Chronicle of Higher Education*. <https://www.chronicle.com/article/im-a-student-you-have-no-idea-how-much-were-using-chatgpt>
- Thier, J. (2023, March 9). New AI jobs: Someone with a 'hacker spirit' can earn over \$300,000 for a new kind of job centered around ChatGPT-like assistants. *Fortune*. <https://fortune.com/2023/03/09/new-ai-jobs-chatgpt-like-assistants>
- Thunström, A. O. (2022, June 30). We asked GPT-3 to write an academic paper about itself—Then we tried to get it published. *Scientific American*. <https://www.scientificamerican.com/article/we-asked-gpt-3-to-write-an-academic-paper-about-itself-mdash-then-we-tried-to-get-it-published>
- Tunyasuvunakool, K., Adler, J., Wu, Z., Green, T., Zielinski, M., Žídek, A., Bridgland, A., Cowie, A., Meyer, C., Laydon, A., Velankar, S., Kleywegt, G. J., Bateman, A., Evans, R., Pritzel, A., Figurnov, M., Ronneberger, O., Bates, R., Kohl, S. A. A., . . . Hassabis, D. (2021). Highly accurate protein structure prediction for the human proteome. *Nature*, 596, 590-596. <https://doi.org/10.1038/s41586-021-03828-1>
- Turing, A. M. (1950). Computing machinery and intelligence. *Mind*, 49, 433-460. <https://doi.org/10.1093/mind/LIX.236.433>
- Turnitin. (2023, July 25). *Turnitin AI detection feature reviews more than 65 million papers* [Press release]. Cision PR Newswire. <https://www.prnewswire.com/news-releases/turnitin-ai-detection-feature-reviews-more-than-65-million-papers-301885203.html>
- Tversky, A., & Kahneman, D. (1974). Judgment under uncertainty: Heuristics and biases. *Science*, 185(4157), 1124-1131. <https://www.jstor.org/stable/1738360>
- Uszkoreit, J. (2017, August 31). Transformer: A novel neural network architecture for language understanding. *Google Research Blog*. <https://blog.research.google/2017/08/transformer-novel-neural-network.html>

- Utley, J., & Klebahn, P. (2022). *Ideaflow: The only business metric that matters*. Penguin.
- Vahid, F., Downey, K., Pang, A., & Gordon, C. (2023). Impact of several low-effort cheating-reduction methods in a CS1 class. *Proceedings of the 2023 ACM SIGCSE Technical Symposium on Computer Science Education, USA*, 486-492. <https://doi.org/10.1145/3545945.3569731>
- Vaswani, A., Shazeer, N., Parmar, N., Uszkoreit, J., Jones, L., Gomez, A. N., Kaiser, Ł., & Polosukhin, I. (2017). Attention is all you need. In I. Guyon, U. Von Luxburg, S. Bengio, H. Wallach, R. Fergus, S. Vishwanathan, & R. Garnett, *Advances in neural information processing systems 30*. https://papers.nips.cc/paper_files/paper/2017/hash/3f5ee243547dee91fbd053c1c4a845aa-Abstract.html
- Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Harvard University Press.
- Waldfoegel, J. (2009). *Scroogenomics: Why you shouldn't buy presents for the holidays*. Princeton University Press.
- Watson, J. (2023, March 6). Computer science researchers lead the defense against the dark side of tech. *Virginia Tech Daily*. <https://vtnews.vt.edu/articles/2023/02/eng-cs-deepfake-research-bimal-viswanath.html>
- Walton Family Foundation. (2023). *Teachers and parents report positive impact of ChatGPT on teaching and learning*. Impact Research. <https://www.waltonfamilyfoundation.org/learning/teachers-parents-report-positive-impact-of-chatgpt-on-teaching-and-learning>
- Weber-Wulff, D., Anohina-Naumeca, A., Bjelobaba, S., Foltýnek, T., Guerrero-Dib, J., Popoola, O., Šigut, P., & Waddington, L. (2023). *Testing of detection tools for AI-generated text*. arXivLabs. <https://doi.org/10.48550/arXiv.2306.15666>
- Weilding, L. (2023, March 27). Half of college students say using AI on schoolwork is cheating or plagiarism. *Best Colleges*. <https://www.bestcolleges.com/research/college-students-ai-tools-survey/>
- Weinberg, B. A., & Galenson, D. W. (2019). Creative careers: The life cycles of Nobel laureates in economics. *De Economist*, 167, 221-239. <https://doi.org/10.1007/s10645-019-09339-9>
- White, S. K. (2023, October 13). 11 most in-demand gen AI jobs companies are hiring for. *CIO*. <https://www.cio.com/article/655291/most-in-demand-generative-ai-jobs.html>

- Whiting, K. (2023, March 2). 3 new and emerging jobs you can get hired for this year. *World Economic Forum*. <https://www.weforum.org/agenda/2023/03/new-emerging-jobs-work-skills>
- Whitten, A. (2023, July). Me, myself, and AI: Artificial intelligence has entered a new era. Here's how we stay human. *Stanford Magazine*. <https://stanfordmag.org/contents/me-myself-and-ai>
- Wiley. (2023). *Higher ed's next chapter, 2023-2024: Four trends reshaping the learning landscape*. <https://www.wiley.com/en-us/network/trending-stories/trends-in-higher-education-2023-2024-shaping-the-learning-landscape>
- Wilson, E. O. (2017). *The origins of creativity*. Liveright.
- Yan-Ran, W., Qu, L., Sheybani, N. D., Luo, X., Wang, J., Hawk, K. E., Theruvath, A. J., Gatidis, S., Xiao, X., Pribnow, A., Rubin, D., & Daldrup-Link, H. E. (2023). AI transformers for radiation dose reduction in serial whole-body PET scans. *Radiology: Artificial Intelligence*, 5(3). <https://doi.org/10.1148/ryai.220246>
- Yang, C., Wang, X., Lu, Y., Liu, H., Le, Q. V., Zhou, D., & Chen X. (2023). *Large language models as optimizers*. arXivLabs. <https://doi.org/10.48550/arXiv.2309.03409>
- Young, J. R. (2018, April 13). Can a 'family of bots' reshape college teaching? *EdSurge*. <https://www.edsurge.com/news/2018-04-13-can-a-family-of-bots-reshape-college-teaching>
- Yu, H., Marschke, G., Ross, M. B., Staudt, J., & Weinberg, B. (2023). Publish or perish: Selective attrition as a unifying explanation for patterns in innovation over the career. *Journal of Human Resources*, 58(4) 1307-1346. <https://doi.org/10.3368/jhr.59.2.1219-10630R1>
- Zaromb, F. M., & Roediger, H. L. (2010). The testing effect in free recall is associated with enhanced organizational processes. *Memory & Cognition*, 38(8), 995-1008. <https://doi.org/10.3758/MC.38.8.995>
- Zimmerman, J. (2023, August 29). Here's my AI policy for students: I don't have one. *The Washington Post*. <https://www.washingtonpost.com/opinions/2023/08/29/ai-student-policy-chatgpt-college/>