



AMERICAN  
PSYCHOLOGICAL  
ASSOCIATION

## ESSENTIAL SCIENCE CONVERSATIONS: ARTIFICIAL INTELLIGENCE AND PSYCHOLOGICAL RESEARCH: CAN AI REPLACE HUMAN PARTICIPANTS? (APRIL 12, 2024)

---

### RELATED READINGS

Atari, M., Xue, M. J., Park, P. S., Blasi, D. E., & Henrich, J. (2023, September 22). Which Humans?. <https://doi.org/10.31234/osf.io/5b26t>

Crockett, M., & Messeri, L. (2023, June 19). Should large language models replace human participants?. <https://doi.org/10.31234/osf.io/4zdx9>

Demszky, D., Yang, D., Yeager, D.S. *et al.* Using large language models in psychology. *Nat Rev Psychol* 2, 688–701 (2023). <https://doi.org/10.1038/s44159-023-00241-5>

Dillion, D., Tandon, N., Gu, Y., & Gray, K. (2023). Can AI language models replace human participants?. *Trends in cognitive sciences*, 27(7), 597–600.  
<https://doi.org/10.1016/j.tics.2023.04.008>

Fan, J., Sun, T., Liu, J., Zhao, T., Zhang, B., Chen, Z., Glorioso, M., & Hack, E. (2023). How well can an AI chatbot infer personality? Examining psychometric properties of machine-inferred personality scores. *Journal of Applied Psychology*, 108(8), 1277–1299.  
<https://doi.org/10.1037/apl0001082>

Henrich, J. (2020). *The WEIRD People in the World: How the West Became Psychologically Peculiar and Particularly Prosperous*. Farrar, Straus and Giroux.

Hernandez, I., & Nie, W. (2023). The AI-IP: Minimizing the guesswork of personality scale item development through artificial intelligence. *Personnel Psychology*, 76(4), 1011–1035.  
<https://doi.org/10.1111/peps.12543>

Hickman, L., Bosch, N., Ng, V., Saef, R., Tay, L., & Woo, S. E. (2022). Automated video interview personality assessments: Reliability, validity, and generalizability investigations. *Journal of Applied Psychology*, 107(8), 1323–1351. <https://doi.org/10.1037/apl0000695>

Messeri, L., Crockett, M.J. Artificial intelligence and illusions of understanding in scientific research. *Nature* 627, 49–58 (2024). <https://doi.org/10.1038/s41586-024-07146-0>

Tay, L., Woo, S. E., Hickman, L., Booth, B., & D'Mello, S. (2022). A conceptual framework for investigating and mitigating machine learning bias. *Advances in Methods and Practices in Psychological Science*, 5(1), 1–30. <https://doi.org/10.1177/25152459211061337>

Woo, S. E., Tay, L., & Oswald, F. (2024). Artificial intelligence, machine learning, and big data: Improvements to the science of people at work and applications to practice. *Personnel Psychology*.  
<https://doi.org/10.1111/peps.12643>

### RELATED RESOURCES

#### APA Publishing Policies

APA publishes high-quality research that undergoes a rigorous and ethical peer review process. Journal policies for authors are provided for transparency and clarity, including ethical expectations, AI guidance, and reuse. visit: [www.apa.org/pubs/journals/resources/publishing-policies](http://www.apa.org/pubs/journals/resources/publishing-policies)