Stanford

Alaa Talaat Youssef

Postdoctoral Scholar, Radiology

Bio

BIO

Dr. Youssef is a postdoctoral fellow in the Department of Radiology at Stanford University School of Medicine. She received her Doctor of Philosophy degree in Data Science and Population Health from the Institute of Medical Science, University of Toronto, Canada in 2021. Her research addresses ethical considerations in AI development, aiming to promote responsible use of AI in healthcare. Using mixed-methods methodologies, she investigates the end-user experience with AI systems, identifying ethical and safety concerns related to integrating AI into clinical workflows. Dr. Youssef leads several AI educational programs and policy initiatives. She co-directs the Stanford AIMI High School Programs, preparing the next generation for careers that intersect AI and medicine. She also serves on several AI policy and education committees across the Stanford School of Medicine.

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HONORS AND AWARDS

- 2022 Stanford Postdoc JEDI Champion Award, Office of Postdoctoral Affairs - Stanford University (09/20/22)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Post-doctoral Representative, Committee for Research - Faculty Senate, Stanford University (2021 - 2022)

STANFORD ADVISORS

- David Larson, Postdoctoral Faculty Sponsor
- Matthew Lungren, Postdoctoral Research Mentor

LINKS

- Twitter: https://twitter.com/Alaa_Youssef92
- LinkedIn: https://www.linkedin.com/in/alaa-youssef-5a610068/
- Postdoctoral Award 2022: https://postdocs.stanford.edu/about/diversity-postdoctoral-scholar-training/meet-2022-postdoc-jedi-champions
- About Me: https://www.linkedin.com/pulse/alaa-youssef-mentoring-next-generation-health-care-ai-experts-/?trackingId=ErUc4sn1a6MqVQHo9CNKYw%3D%3D

Research & Scholarship

LAB AFFILIATIONS

- David Larson, Stanford AI Radiology Evaluation Lab (6/1/2022)
- David Magnus, The COLLAB Lab (6/1/2022)
- Danton Char, The COLLABORATORY (4/1/2022)

- Curtis Langlotz, Langlotz Lab (2/1/2022)

Publications

PUBLICATIONS

- **Perceptions of Data Set Experts on Important Characteristics of Health Data Sets Ready for Machine Learning: A Qualitative Study.** *JAMA network open*
  Ng, M. Y., Youssef, A., Miner, A. S., Sarellano, D., Long, J., Larson, D. B., Hernandez-Boussard, T., Langlotz, C. P.
  2023; 6 (12): e2345892

- **Organizational Factors in Clinical Data Sharing for Artificial Intelligence in Health Care.** *JAMA network open*
  Youssef, A., Ng, M. Y., Long, J., Hernandez-Boussard, T., Shah, N., Miner, A., Larson, D., Langlotz, C. P.
  2023; 6 (12): e2348422

- **Inter-institutional data-driven education research: consensus values, principles, and recommendations to guide the ethical sharing of administrative education data in the Canadian medical education research context.** *Canadian medical education journal*
  Grierson, L., Cavanagh, A., Youssef, A., Lee-Krueger, R., McNeill, K., Button, B., Kulasegaram, K.
  2023; 14 (5): 113-120

- **The Importance of Understanding Language in Large Language Models.** *The American journal of bioethics : AJOB*
  Youssef, A., Stein, S., Clapp, J., Magnus, D.
  2023; 23 (10): 6-7

- **Is the Algorithm Good in a Bad World, or Has It Learned to be Bad? The Ethical Challenges of "Locked" Versus "Continuously Learning" and "Autonomous" Versus "Assistive" AI Tools in Healthcare.** *The American journal of bioethics : AJOB*
  Youssef, A., Abramoff, M., Char, D.
  2023; 23 (5): 43-45