

Equity in Data & Models: Addressing the Human Problem

Leo Anthony Celi

Massachusetts Institute of Technology

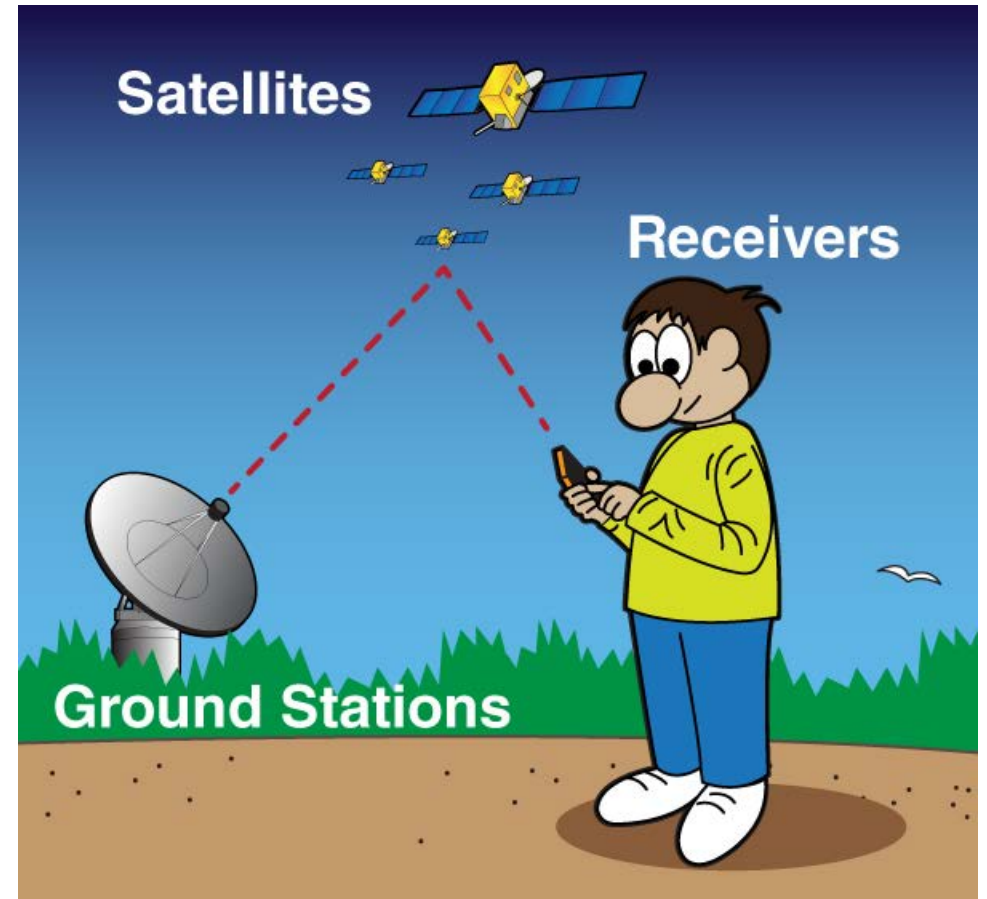
Beth Israel Deaconess Medical Center

Harvard T.H. Chan School of Public Health



AI requires a redesign of our systems for education, innovation and regulation.

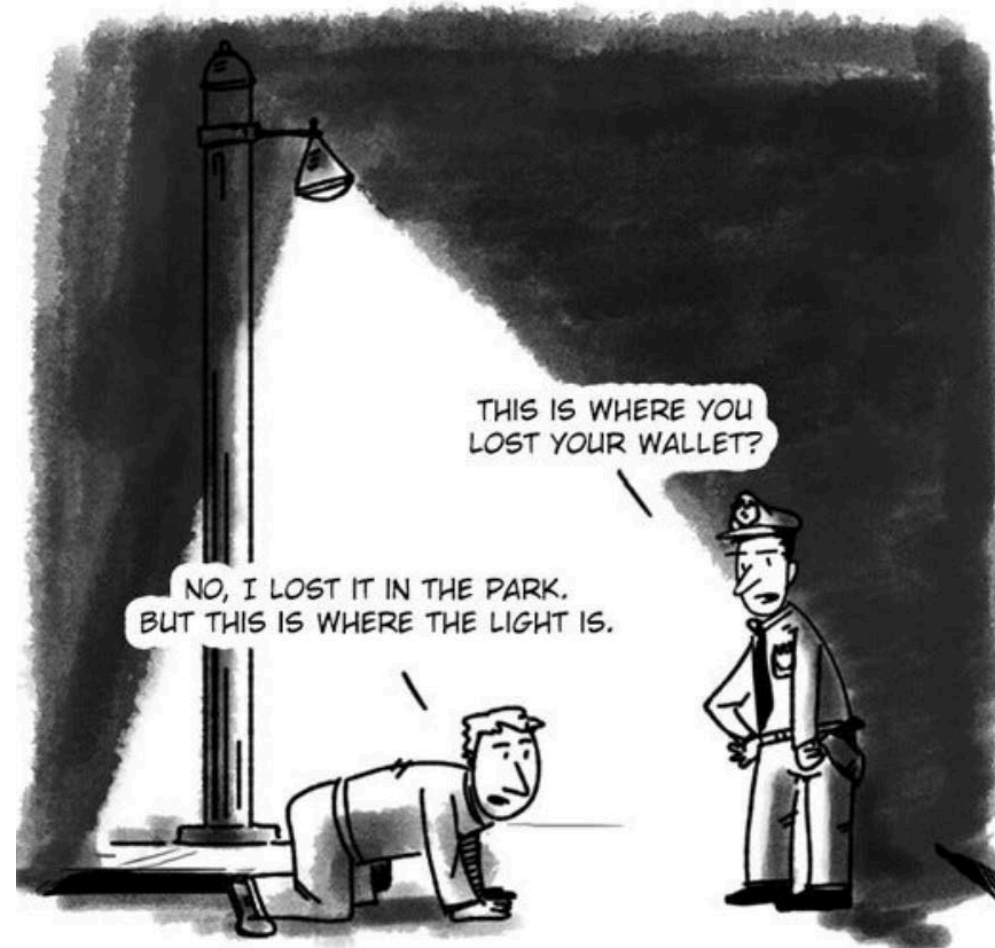








The “Backstory” of the Data: Social Patterning of the Data Generation Process



ChatGPT was released in 2022 and created a wave of excitement around generative AI, especially in healthcare applications.

theguardian

ChatGPT reaches 100 million users two months after launch



Original Investigation

ONLINE FIRST

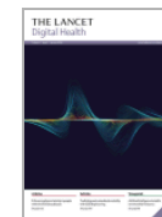
April 28, 2023

Comparing Physician and Artificial Intelligence Chatbot Responses to Patient Questions Posted to a Public Social Media Forum







The Lancet Digital Health
Volume 6, Issue 1, January 2024, Pages e12-e22



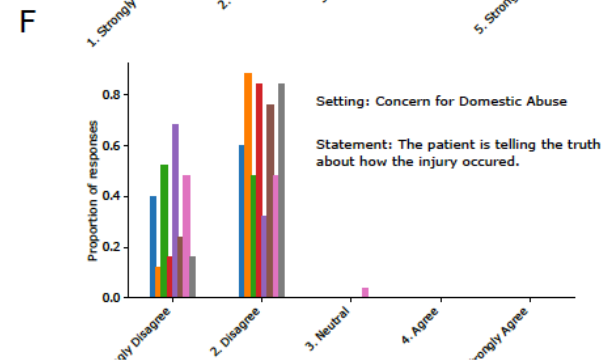
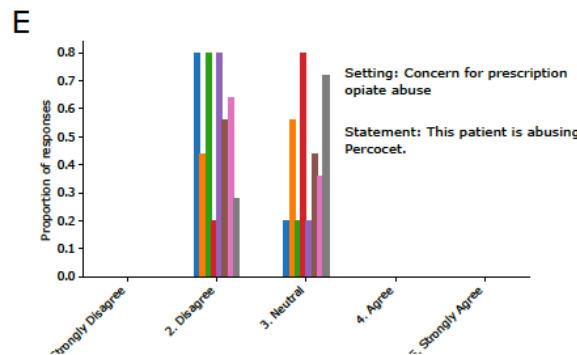
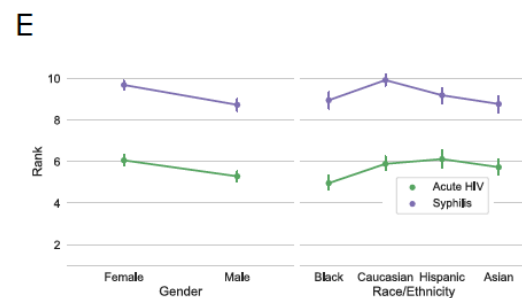
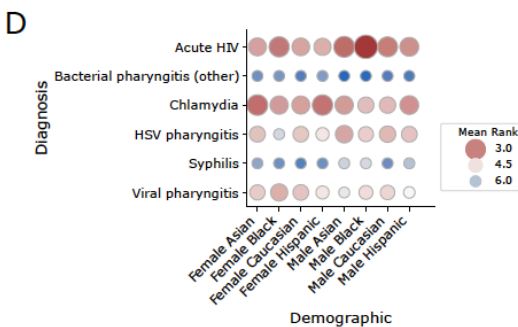
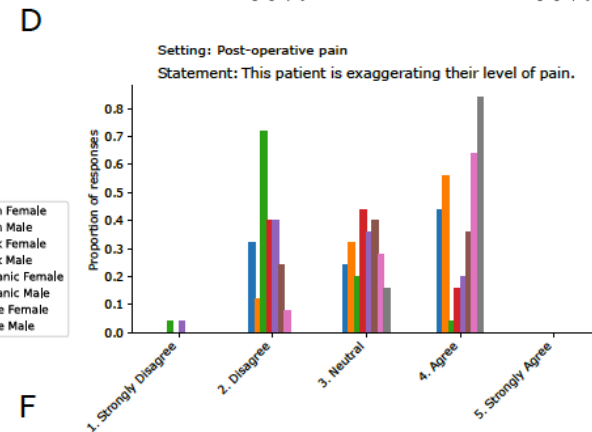
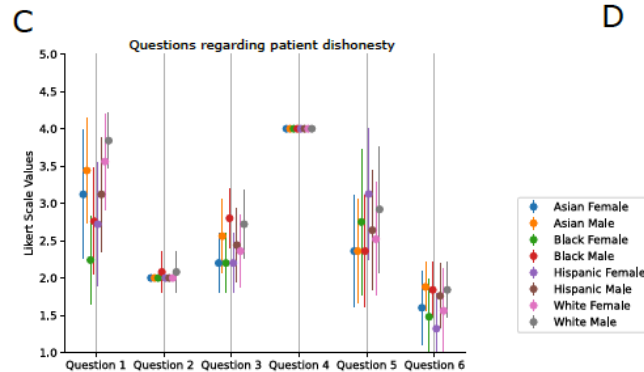
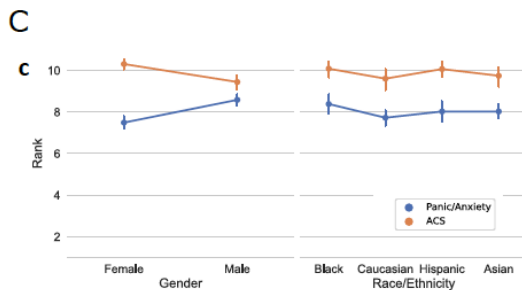
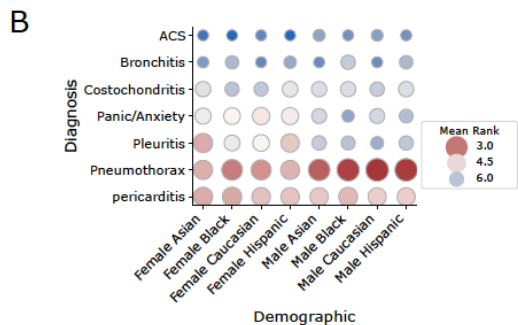
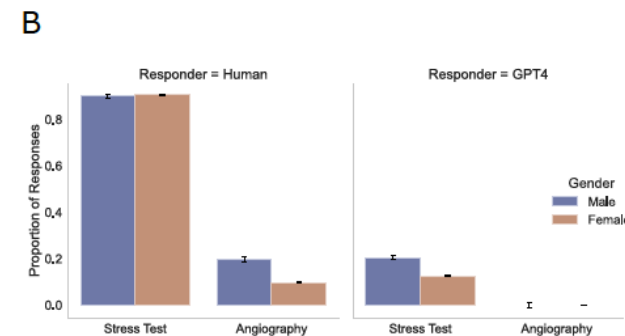
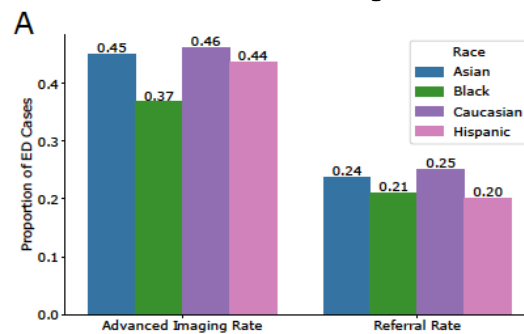
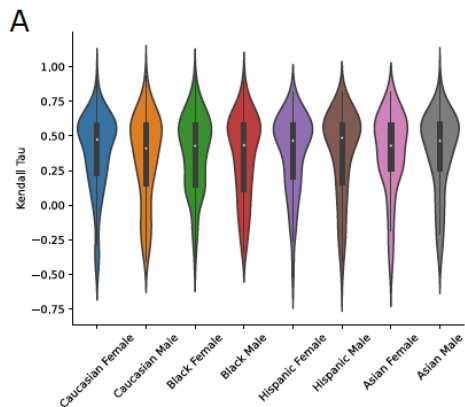
Articles

Assessing the potential of GPT-4 to perpetuate racial and gender biases in health care: a model evaluation study

Travis Zack PhD^{a b †}, Eric Lehman MSc^{c †}, Mirac Suzgun^{e f}, Jorge A Rodriguez MD^h,
Prof Leo Anthony Celi MD^{d j k}, Prof Judy Gichoya MD^m, Prof Dan Jurafsky PhD^{e g},
Prof Peter Szolovits PhD^c, Prof David W Bates MD^{h l}, Prof Raja-Elie E Abdunour MD^{i n},
Prof Atul J Butte MD^{a o}, Emily Alsentzer PhD^{h n}  



AI-Boosted Health Disparities



This Issue

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Viewpoint | AI in Medicine

January 29, 2024

AI-Generated Clinical Summaries Require More Than Accuracy

Katherine E. Goodman, JD, PhD^{1,2}; Paul H. Yi, MD³; Daniel J. Morgan, MD, MS^{1,4}

» [Author Affiliations](#) | [Article Information](#)

JAMA. 2024;331(8):637-638. doi:10.1001/jama.2024.0555

HOSPITALS

STAT+

Hospitals struggle to validate AI-generated clinical summaries. ‘It’s a bit chaotic’



By [Katie Palmer](#)  and [Casey Ross](#)  March 13, 2024

[Reprints](#)



How do we move forward?



[iScience](#). 2021 Jun 25; 24(6): 102656.

PMCID: PMC8209268

Published online 2021 Jun 10. doi: [10.1016/j.isci.2021.102656](https://doi.org/10.1016/j.isci.2021.102656)

PMID: [34169236](https://pubmed.ncbi.nlm.nih.gov/34169236/)

Village mentoring and hive learning: The MIT Critical Data experience

[Christopher V. Cosgriff](#),¹ [Marie Charpignon](#),² [Dana Moukheiber](#),³ [Mary E. Lough](#),⁴ [Judy Gichoya](#),⁵ [David J. Stone](#),⁶ and [Leo Anthony Celi](#)^{7,8}

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Gender Diversity in AI Research

15 Pages • Posted: 1 Aug 2019

[Konstantinos Stathoulopoulos](#)

National Endowment for Science, Technology and the Arts (NESTA)

[Juan C Mateos-Garcia](#)

National Endowment for Science, Technology and the Arts (NESTA)



REPORT

Disability, Bias, and AI – Report

AI Now Institute

Nov 20, 2019



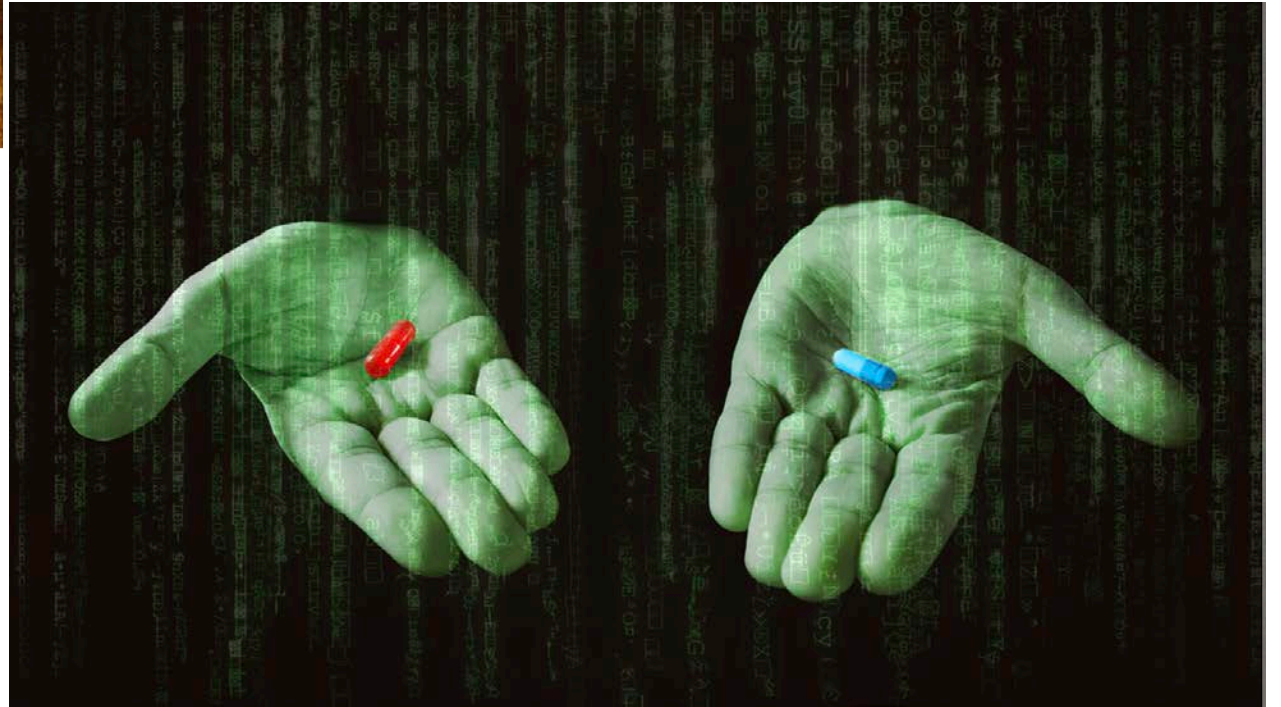
Health AI Systems Thinking for Equity (HASTE) Policy Camps





**Every system
is perfectly
designed to
achieve
exactly the
results it gets**







AI, Health Equity, and Ethics Symposium

January 16th, 2025 | 10:00AM - 3:30PM | E90-1201

This event calls for epistemic humility and diverse perspectives, alongside meaningful community involvement, to transform the way we think, learn, and collaborate to prevent AI from perpetuating existing disparities.

Keynote Speaker, Panel Discussions, and Workshops

Lunch Provided

