



Kameron C. Black

Fellow in Peds/Clinical Informatics

Bio

BIO

Dr. Kameron Black is a Clinical Assistant Professor in the Division of Hospital Medicine at Stanford University School of Medicine, where his research focuses on the safe deployment of agentic artificial intelligence in real-world healthcare systems. He completed his Internal Medicine residency at Oregon Health & Science University and fellowship in Clinical Informatics at Stanford Health Care prior to joining the faculty. His clinical expertise is in the care of adult patients admitted to the inpatient general medicine services.

Dr. Black is a leader in the deployment and evaluation of agentic AI in healthcare. His research has been featured by Anthropic, Forbes, Bloomberg, and the Stanford Institute for Human-Centered AI. He has published scholarly work in journals including NEJM AI, Nature Medicine, npj Health Systems, JMIR AI, Nature Scientific Data, and Applied Clinical Informatics. Previously, he held research roles at Massachusetts General Hospital, Harvard Medical School, and Johns Hopkins University. Dr. Black has delivered invited talks and participated in panels on agentic AI in healthcare for the American Academy of Home Care Medicine, the Healthcare Agent Summit hosted by Wedge Inc., and others.

Beyond his research, Dr. Black is dedicated to advancing undergraduate medical education (UME). He co-founded one of the nation's first longitudinal digital health curricula for medical students. Today, he continues to lecture at the UME level and across various departments at Stanford Medicine on agentic AI, the Cosmos data science platform, and other related topics.

He is certified across Epic's analytics and build tools, including Physician Builder and the Cosmos data science platform.

Additional areas of research focus: Medical AI Benchmarking, Clinical Workflow Automation, Healthcare Administrative Burden, Physician Burnout, Healthcare Workforce Shortage.

Eph 2:8-9

Gal 1:10

CLINICAL FOCUS

- Clinical Informatics
- Internal Medicine
- Quality Improvement
- Medical Education

- Fellow
- Clinical Decision Support Systems

HONORS AND AWARDS

- Leadership Education in Advancing Diversity (LEAD) Scholar, Stanford University School of Medicine (2024-2025)
- Residency Award for Excellence in Scholarship, Oregon Health & Science University (2024)
- Physician Builder Certified (Notecraft, Basic, Advanced), Epic Systems (2023)
- Spring Cohort, Harvard University Innovation Labs Venture Program (2021)
- 1st place team in "Best Use of Google Cloud" category, Massachusetts Institute of Technology, Hacking Medicine: Building for Digital Health 2021 Hackathon (2021)
- Student Innovation Excellence Award, Rocky Vista University College of Osteopathic Medicine (2021)
- 2020 Excellence in Public Health Award, United States Public Health Service (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Medical Informatics Association (2020 - present)
- Member, American College of Physicians (2019 - present)

PROFESSIONAL EDUCATION

- Fellowship, Stanford University Clinical Informatics Fellowship (2026)
- Board Certification, American Board of Internal Medicine , Internal Medicine (2025)
- Residency, Oregon Health & Science University , Internal Medicine (2024)
- Medical Education, Rocky Vista University College of Osteopathic Medicine (2021)
- MPH, University of Colorado , Community & Behavioral Health (2017)

COMMUNITY AND INTERNATIONAL WORK

- SAIL Organizing Committee Member, Río Grande, Puerto Rico
- AMIA Scientific Program Committee member, San Francisco, CA
- AMIA Public health abstract submissions reviewer, Houston, TX

INTERNET LINKS

- LinkedIn: <https://www.linkedin.com/in/kameron-black/>

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Clinical Informatics (Fellowship Program)

Publications

PUBLICATIONS

- **Cultryx: Precision Diagnostic Stewardship for Blood Cultures Using Machine Learning.** *medRxiv : the preprint server for health sciences* Marshall, N. P., Chen, W., Amrollahi, F., Haredasht, F. N., Maddali, M. V., Ma, S. P., Zahedivash, A., Black, K. C., Chang, A., Deresinski, S. C., Goldstein, M. K., Asch, S. M., Banaei, et al
2026
- **MedFactEval and MedAgentBrief: A Framework and Workflow for Generating and Evaluating Factual Clinical Summaries.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing* Grolleau, F., Alsentzer, E., Keyes, T., Chung, P., Swaminathan, A., Aali, A., Hom, J., Huynh, T., Lew, T., Liang, A., Chu, W., Steele, N., Lin, et al

2026; 31: 388-399

- **Retrieval-Augmented Guardrails for AI-Drafted Patient-Portal Messages: Error Taxonomy Construction and Large-Scale Evaluation.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Chen, W., Haredasht, F. N., Black, K. C., Grolleau, F., Alsentzer, E., Chen, J. H., Ma, S. P.
2026; 31: 189-204
- **MedAgentBench v2: Improving Medical LLM Agent Design.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Chen, E., Postelnik, S., Black, K., Jiang, Y., Chen, J. H.
2026; 31: 354-371
- **Holistic evaluation of large language models for medical tasks with MedHELM.** *Nature medicine*
Bedi, S., Cui, H., Fuentes, M., Unell, A., Wornow, M., Banda, J. M., Kotecha, N., Keyes, T., Mai, Y., Oez, M., Qiu, H., Jain, S., Schettini, et al
2026
- **The Elastic Electronic Health Record: A Five-Tiered Framework for Applying Artificial Intelligence to Electronic Health Record Maintenance, Configuration, and Use.** *JMIR AI*
Uptegraft, C., Black, K. C., Gale, J., Marshall, A., He, S.
2025; 4: e66741
- **MedAgentBench: A Virtual EHR Environment to Benchmark Medical LLM Agents** *NEJM AI*
Jiang, Y., Black, K., Geng, G., Park, D., Zou, J., Ng, A., Chen, J.
2025
- **A Multi-Phase Analysis of Blood Culture Stewardship: Machine Learning Prediction, Expert Recommendation Assessment, and LLM Automation** *arXiv*
Amrollahi, F., Marshall, N., Nateghi Haredasht, F., Black, K. C., et al
2025
- **A Multi-Phase Analysis of Blood Culture Stewardship: Machine Learning Prediction, Expert Recommendation Assessment, and LLM Automation.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Amrollahi, F., Marshall, N., Haredasht, F. N., Black, K. C., Zahedivash, A., Maddali, M. V., Ma, S. P., Chang, A., Deresinski, S. C., Goldstein, M. K., Asch, S. M., Banaei, N., Chen, et al
2024; 2024: 147-156
- **Entropy removal of medical diagnostics.** *Scientific reports*
He, S., Chong, P., Yoon, B. J., Chung, P. H., Chen, D., Marzouk, S., Black, K. C., Sharp, W., Safari, P., Goldstein, J. N., Raja, A. S., Lee, J.
2024; 14 (1): 1181
- **An Electronic Health Record Alert for Inpatient Coronavirus Disease 2019 Vaccinations Increases Vaccination Ordering and Uncovers Workflow Inefficiencies.** *Applied clinical informatics*
Black, K. C., Snyder, N. A., Zhou, M., Zhu, Z., Uptegraft, C., Chintalapani, A., Orwoll, B.
2024; 15 (1): 192-198
- **Network Analysis of Academic Medical Center Websites in the United States.** *Scientific data*
He, S., Chen, D., Black, K. C., Chong, P., Marzouk, S., Yoon, B. J., Davis, K., Lee, J.
2023; 10 (1): 245
- **An Analysis of US Academic Medical Center Websites: Usability Study.** *Journal of medical Internet research*
Gale, J. J., Black, K. C., Calvano, J. D., Fundingsland, E. L., Lai, D., Silacci, S., He, S.
2021; 23 (12): e27750
- **Host control over infection and proliferation of a cheater symbiont.** *Journal of evolutionary biology*
Sachs, J. L., Russell, J. E., Lii, Y. E., Black, K. C., Lopez, G., Patil, A. S.
2010; 23 (9): 1919-27

PRESENTATIONS

- Network Analysis of Academic Medical Center Websites in the United States. - American Medical Informatics Association Clinical Informatics Conference

- Evaluation of Inpatient COVID-19 Vaccination Alerts at an Academic Medical Center and Community Hospital. - American Medical Informatics Association Clinical Informatics Conference