

BIOGRAPHICAL SKETCH

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NAME: Blum, James

eRA COMMONS USER NAME (credential, e.g., agency login): [REDACTED]

POSITION TITLE: Chief Health Information Officer

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Alma College	BS	1998	Computer Science
Johns Hopkins University School of Medicine	MD	2003	Medicine
University of Michigan	Residency	2007	Anesthesiology
University of Michigan	Fellowship	2008	Critical Care Medicine

A. Personal Statement

Dr. James Blum is uniquely qualified to lead this project, bringing extensive expertise at the intersection of clinical care, health informatics, and technology innovation. With over a decade of leadership experience in critical care, anesthesiology, and informatics, Dr. Blum has demonstrated the ability to translate emerging technologies into practical solutions for healthcare challenges.

As Chief Health Information Officer at the University of Iowa, Dr. Blum has spearheaded initiatives that integrate advanced data analytics and machine learning into clinical workflows, improving patient outcomes and operational efficiency. His academic contributions include peer-reviewed research on applying artificial intelligence to reduce provider burnout, enhance clinical decision support systems, and optimize data accessibility in electronic health records (EHR). These achievements illustrate his capacity to lead multidisciplinary teams and deliver transformative technologies in complex healthcare environments.

Dr. Blum's certifications in Clinical Informatics, Critical Care Medicine, and Anesthesiology, combined with his leadership roles at major academic medical centers and Veterans Affairs facilities, further underscore his readiness to oversee this project. His track record of successful collaborations between clinicians, engineers, and data scientists positions him to navigate the technical and clinical complexities of implementing generative AI-driven solutions in patient portals.

B. Positions, Scientific Appointments, and Honors

Positions and Employment

2010 – 2011 University of Michigan Medical School Interim Director, Division of Critical Care Medicine, Department of Anesthesiology

2010 – 2012 University of Michigan Medical School Interim Director, Cardiovascular Intensive Care Unit

2008 – 2014 University of Michigan Medical School Associate Director, Critical Care Fellowship – Anesthesiology

2012 – 2014 University of Michigan Medical School Associate Director, Cardiovascular Intensive Care Unit

2013 – 2014 University of Michigan Medical School Director, Ann Arbor Veterans Affairs Surgical Trauma Intensive Care Unit

2014 – 2016 Emory University School of Medicine Chief, Critical Care Anesthesiology and Surgical Specialties Anesthesiology

2014 – 2019 Emory University School of Medicine Chief of Critical Care Anesthesiology

2019 – 2020 Emory University School of Medicine Vice Chair for Technology and Innovation

2016 – 2019 Atlanta Veterans Affairs Medical Center Chief of Anesthesiology

2019 – 2020 Atlanta Veterans Affairs Medical Center Technical Director Veterans Health Administration Clinical Informatics and Data Management Office – Data Management & Analytics

2020 –
Present University of Iowa Chief Health Information Officer

Other Experience and Professional Memberships

American Board of Anesthesiology – Certified in Anesthesiology

American Board of Anesthesiology – Certified in Critical Care Medicine

American Board of Preventive Medicine – Certified in Clinical Informatics

Michigan State Medical License – Active through 2026

Iowa State Medical License – Active through 2025

Georgia State Medical License – Active through 2025

American Society of Anesthesiologists

Society of Critical Care Medicine

Society of Critical Care Anesthesiologists

American Medical Informatics Association

Institute of Electrical and Electronics Engineers

Honors

- 2004 Internal Medicine Intern of the Year
- 2006 Poster Travel Award
- 2010 Best Project Proposal
- 2011 Kosaka Award for Best Clinical Research
- 2012 Best Pulmonary Abstract

C. Contributions to Science

- Mlsurac, J., Knake, L. A. & **Blum, J. M.** (2024). [The effect of ambient artificial intelligence notes on provider burnout](#). *Appl Clin Inform*. DOI: [10.1055/a-2461-4576](#). PMID: 39500346.
- Knake, L. A., Asbury, R., Penisten, S., Meyer, N., Burrell, K., Chuffo Davila, R., Wright, A. & **Blum, J. M.** (2024). [Successfully transitioning an interruptive alert into a noninterruptive alert for central line dressing changes in the Neonatal Intensive Care Unit](#). *Appl Clin Inform* 15 (5) 965-969. DOI: [10.1055/a-2394-4462](#). PMID: 39163999. PMCID: PMC11560397 (available on 2025-11-13).
- Dornbush, C., Mishra, A., Hrabe, J., Guyton, K., Axelrod, D., **Blum, J.** & Gribovskaja-Rupp, I. (2024). [Remote monitoring after elective colorectal surgery, a pilot study](#). *Surgery*. DOI: [10.1016/j.surg.2024.08.025](#). PMID: 39307673.
- Musurac, J., Knake, L. A. & **Blum, J. M.** (2024). [Impact of ambient artificial intelligence notes on provider burnout](#). *medRxiv*. DOI: [10.1101/2024.07.18.24310656](#).
- Cramer, E., Kuperman, E., Meyer, N. & **Blum, J. M.** (2024). [Improving naloxone co-prescribing through clinical decision support](#). *Cureus* 16 (7) e63919. DOI: [10.7759/cureus.63919](#). PMID: 39099893. PMCID: PMC11298243.
- Lilly, C. M., Kirk, D., Pessach, I. M., Lotun, G., Chen, O., Lipsky, A., Lieder, I., Celniker, G., Cucchi, E. W. & **Blum, J. M.** (2024). [Application of machine learning models to biomedical and information system signals from critically ill adults](#). *Chest* 165 (5) 1139-1148. DOI: [10.1016/j.chest.2023.10.036](#). PMID: 37923292.
- Wood, K. E., Pham, H. T., Carter, K. D., Nepple, K. G., **Blum, J. M.** & Krasowski, M. D. (2023). [Impact of a switch to immediate release on the patient viewing of diagnostic test results in an online portal at an academic medical center](#). *J Pathol Inform* 14 100323. DOI: [10.1016/j.jpi.2023.100323](#). PMID: 37520309. PMCID: PMC10384271.
- **Blum, J. M.** & Kuehn, D. M. (2022). [Collaborative artificial intelligence in practice: the next steps](#). *Anesthesiology* 137 (6) 664-665. DOI: [10.1097/ALN.0000000000004412](#). PMID: 36413783.
- Jackson, B. R., Gold, J. A. W., Natarajan, P., Rossow, J., Neblett Fanfair, R., da Silva, J., Wong, K. K., Browning, S. D., Bamrah Morris, S., Rogers-Brown, J., Hernandez-Romieu, A. C., Szablewski, C. M., Oosmanally, N., Tobin-D'Angelo, M., Drenzek, C., Murphy, D. J., Hollberg, J., **Blum, J. M.**, Jansen, R., Wright, D. W., Sewell, W. M., Owens, J. D., Lefkove, B., Brown, F. W., Burton, D. C., Uyeki, T. M., Bialek, S. R., Patel, P. R. & Bruce, B. B. (2021). [Predictors at admission of mechanical ventilation and death in an observational cohort of adults hospitalized with coronavirus disease 2019](#). *Clin Infect Dis* 73 (11) e4141-e4151. DOI: [10.1093/cid/ciaa1459](#). PMID: 32971532. PMCID: PMC7543323.