

# Stanford

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## Tomin James

Postdoctoral Scholar, Anesthesiology, Perioperative and Pain Medicine

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### Bio

#### BIO

My work involves designing and developing AI/ML-based algorithms to find answers for cutting-edge problems using multi-disciplinary data. This involves data from space-borne and ground-based instruments for astrophysics and space science studies, high-speed imaging data for behavioral neuroscience experiments, multi-omics data for finding biomarkers affecting population health, clinical data for detecting health anomalies, and EHR data for patient trajectory prediction and personalized medicine.

#### STANFORD ADVISORS

- Nima Aghaeepour, Postdoctoral Faculty Sponsor

#### LINKS

- LinkedIn: <https://www.linkedin.com/in/tomin-james/>
- Google Scholar: <https://scholar.google.com/citations?user=zfd3QlkAAAAJ&hl=en>

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### Publications

#### PUBLICATIONS

- **Mitigation of outcome conflation in predicting patient outcomes using electronic health records.** *Journal of the American Medical Informatics Association : JAMIA*  
Reincke, S. M., Espinosa, C., Chung, P., James, T., Berson, E., Aghaeepour, N.  
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- **PregMedNet: Multifaceted Maternal Medication Impacts on Neonatal Complications.** *medRxiv : the preprint server for health sciences*  
Kim, Y., Marić, I., Kashiwagi, C. M., Han, L., Chung, P., Reiss, J. D., Butcher, L. D., Caoili, K. J., Berson, E., Xue, L., Espinosa, C., James, T., Shome, et al  
2025
- **A machine learning approach to leveraging electronic health records for enhanced omics analysis.** *Nature machine intelligence*  
Mataraso, S. J., Espinosa, C. A., Seong, D., Reincke, S. M., Berson, E., Reiss, J. D., Kim, Y., Ghanem, M., Shu, C. H., James, T., Tan, Y., Shome, S., Stelzer, et al  
2025; 7 (2): 293-306
- **A machine learning approach to leveraging electronic health records for enhanced omics analysis** *NATURE MACHINE INTELLIGENCE*  
Mataraso, S. J., Espinosa, C. A., Seong, D., Reincke, S., Berson, E., Reiss, J. D., Kim, Y., Ghanem, M., Shu, C., James, T., Tan, Y., Shome, S., Stelzer, et al  
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- **Comprehensive overview of the anesthesiology research landscape: A machine Learning Analysis of 737 NIH-funded anesthesiology primary Investigator's publication trends.** *Heliyon*

Ghanem, M., Espinosa, C., Chung, P., Reincke, M., Harrison, N., Phongpreecha, T., Shome, S., Saarunya, G., Berson, E., James, T., Xie, F., Shu, C. H., Hazra, et al  
2024; 10 (7): e29050

- **Maternal vaccination to prevent adverse pregnancy outcomes: An underutilized molecular immunological intervention?** *Journal of molecular biology*

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