



Xiruo Ding

Postdoctoral Scholar, Anesthesiology, Perioperative and Pain Medicine

Bio

BIO

I am a postdoctoral scholar at Stanford University, advised by Dr. Nima Aghaeepour, focusing on EHR-related modeling and phenotyping. My research interests lie in the application of general machine learning and deep learning methods to enhance healthcare outcomes.

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Master of Science, Duke University (2017)
- Bachelor of Science, Tongji University (2015)
- Doctor of Philosophy, University of Washington (2024)

STANFORD ADVISORS

- Nima Aghaeepour, Postdoctoral Faculty Sponsor

LINKS

- Xiruo - NALAB: <https://nalab.stanford.edu/team/xiruo-ding/>

Research & Scholarship

LAB AFFILIATIONS

- Nima Aghaeepour, NALAB (2/3/2025)

Publications

PUBLICATIONS

- **An adult proteomic signature associated with very low birth weight and chronic disease risk.** *Med (New York, N.Y.)*
Huang, C. Y., Seong, D., Reiss, J., Shu, C. H., Sadeghi, M. A., Chung, P., Yang, L. K., Xue, L., Fang, Y., Xu, R., Ding, X., Sheybani, S., Han, et al
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- **Tailoring task arithmetic to address bias in models trained on multi-institutional datasets.** *Journal of biomedical informatics*
Ding, X., Sheng, Z., Hur, B., Tauscher, J., Ben-Zeev, D., Yetisgen, M., Pakhomov, S., Cohen, T.
2025; 168: 104858
- **A flexible symbolic regression method for constructing interpretable clinical prediction models** *NPJ DIGITAL MEDICINE*
La Cava, W. G. G., Lee, P. C. C., Ajmal, I., Ding, X., Solanki, P., Cohen, J. B. B., Moore, J. H. H., Herman, D. S. S.

2023; 6 (1): 107

- **From benchmark to bedside: transfer learning from social media to patient-provider text messages for suicide risk prediction** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Burkhardt, H. A., Ding, X., Kerbrat, A., Comtois, K., Cohen, T.
2023; 30 (6): 1068-1078
- **Automated Detection of Cognitive Distortions in Text Exchanges Between Clinicians and People With Serious Mental Illness** *PSYCHIATRIC SERVICES*
Tauscher, J. S., Lybarger, K., Ding, X., Chander, A., Hudenko, W. J., Cohen, T., Ben-Zeev, D.
2023; 74 (4): 407-410
- **Improving Classification of Infrequent Cognitive Distortions: Domain-Specific Model vs. Data Augmentation**
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- **Augmenting aer2vec: Enriching distributed representations of adverse event report data with orthographic and lexical information** *JOURNAL OF BIOMEDICAL INFORMATICS*
Ding, X., Mower, J., Subramanian, D., Cohen, T.
2021; 119: 103833
- **A maximum likelihood approach to electronic health record phenotyping using positive and unlabeled patients** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Zhang, L., Ding, X., Ma, Y., Muthu, N., Ajmal, I., Moore, J. H., Herman, D. S., Chen, J.
2020; 27 (1): 119-126
- **Designing risk prediction models for ambulatory no-shows across different specialties and clinics** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Ding, X., Gellad, Z. F., Mather, C., Barth, P., Poon, E. G., Newman, M., Goldstein, B. A.
2018; 25 (8): 924-930
- **An analogous wood barrel theory to explain the occurrence of hormesis: A case study of sulfonamides and erythromycin on *Escherichia coli* growth** *PLOS ONE*
Wang, D., Lin, Z., Wang, T., Ding, X., Liu, Y.
2017; 12 (7)
- **The Comparison of the Combined Toxicity between Gram-negative and Gram-positive Bacteria: a Case Study of Antibiotics and Quorum-sensing Inhibitors** *MOLECULAR INFORMATICS*
Wang, D., Lin, Z., Ding, X., Hu, J., Liu, Y.
2016; 35 (2): 54-61