Stanford



David Kim

Assistant Professor of Emergency Medicine (Adult Clinical/Academic) and, by courtesy, of Biomedical Data Science

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- Emergency Medicine
- Machine Learning
- Population Health
- Epidemiology
- Network Science

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Emergency Medicine
- Assistant Professor-Univ Med Line (By courtesy), Department of Biomedical Data Science
- Member, Wu Tsai Neurosciences Institute

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society of Academic Emergency Medicine (2016 - present)
- Member, American College of Emergency Physicians (2016 - present)

PROFESSIONAL EDUCATION

- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2021)
- Residency: Stanford University Emergency Medicine Residency (2020) CA
- Medical Education: Harvard Medical School (2016) MA
- MD, Harvard Medical School (2016)
- PhD, Harvard Graduate School of Arts & Sciences (2015)
- BSc, University of Toronto (2007)

Publications

PUBLICATIONS

- **Simulation of AI-driven CT Imaging Queue Prioritization in the Emergency Department.** *Radiology. Artificial intelligence*
  Silva, E., Tang, K., Chiacchia, S., Zhang, X., Langlotz, C., Kim, D.
  2026: e260110

- **AI counseling agent for motivational interviewing: Conversational processes associated with change talk in emergency department patients.** *Journal of substance use and addiction treatment*
  Suffoletto, B., Prieksaitis, C., Kim, D., Rose, C., Pitre, V., Pillai, N., Mandal, M.
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- **Predicting Future Organ Support Needs Using Longitudinal Emergency Department Data: A Proof-of-Concept Study.** *Research square*
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- **Opportunistic Cardiovascular Risk Assessment Using Routine Head CT in the Emergency Department.** *Journal of the American College of Cardiology*
  Zhang, X., Acosta, J. N., Dogra, S., Silva, E. N., Basu, S., Krumholz, H. M., Khera, R., Rajpurkar, P., Kim, D.
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- **A clinical environment simulator for dynamic AI evaluation.** *Nature medicine*
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- **In reply.** *Annals of emergency medicine*
  Kim, D.
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- **Brief Instrumented Mobility Testing Improves Fall Risk Stratification in Older Emergency Department Patients.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
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- **ED-Explain: Personalized Video Instructions for Patients Discharged from the Emergency Department.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
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- **Evaluation of Large Language Models as Emergency Department Revisit Predictors.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
  Chen, E., Luo, L., Gunturkun, F., Sambara, S., Arora, R., Jin, B. T., Rajpurkar, P., Kim, D. A.
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- **Open-Ended Clinical Text Generation for Acute Care: Applying Reinforcement Learning with Clinically Grounded Rewards**
  Wang, M., Luo, L., Kim, S., Cao, F., Kim, D. A., Rajpurkar, P.
  edited by Healey, E., Fries, J., Pollard, T., Tang, S., Zink, A., Hartvigsen, T., Agrawal, M., Finlayson, S., Glicksberg, B., Beaulieu-Jones, B., Wang, K., Fontalvo, D., Sarker, T., Chen, Alsentzer, E.
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- **Evaluation of Large Language Models as Emergency Department Revisit Predictors**
  Chen, E., Luo, L., Gunturkun, F., Sambara, S., Arora, R., Jin, B., Rajpurkar, P., Kim, D. A.
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- **NotifAI-OS: an AI framework for automated CT-based opportunistic screening in post-acute value-based care.** *Nature biomedical engineering*
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- **Feasibility of Measuring Smartphone Accelerometry Data During a Weekly Instrumented Timed Up-and-Go Test After Emergency Department Discharge: Prospective Observational Cohort Study.** *JMIR aging*
  Suffoletto, B., Kim, D., Toth, C., Mayer, W., Glaister, S., Cinkowski, C., Ashenburg, N., Lin, M., Losak, M.
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- **GPT4 Accurately Classifies the Clinical Actionability of Emergency Department Imaging Reports** *GPT4 Accurately Classifies the Clinical Actionability of Emergency Department Imaging Reports*
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- **A framework for integrating artificial intelligence for clinical care with continuous therapeutic monitoring.** *Nature biomedical engineering*
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- **Development and Comparative Performance of Physiologic Monitoring Strategies in the Emergency Department.** *JAMA network open*
  Kim, D., Jin, B. T.
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- **Predicting malnutrition from longitudinal patient trajectories with deep learning.** *PloS one*
  Jin, B. T., Choi, M. H., Moyer, M. F., Kim, D. A.
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- **Detection of bacterial co-infections and prediction of fatal outcomes in COVID-19 patients presenting to the emergency department using a 29 mRNA host response classifier.** *medRxiv : the preprint server for health sciences*
  Ram-Mohan, N., Rogers, A. J., Blish, C. A., Nadeau, K. C., Zudock, E. J., Kim, D., Quinn, J. V., Sun, L., Liesenfeld, O., Stanford COVID-19 Biobank Study Group, Yang, S.
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- **A Novel Emergency Medical Services Protocol To Improve Treatment Time For Large Vessel Occlusion Strokes**
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- **A novel emergency medical services protocol to improve treatment time for large vessel occlusion strokes.** *PloS one*
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- **Transfer learning enables prediction of myocardial injury from continuous single-lead electrocardiography** *Journal of the American Medical Informatics Association*
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- **Predicting Myocardial Injury From Continuous Single-Lead Electrocardiography in the Emergency Department** *Academic Emergency Medicine*
  Kim, D. A., Jin, B. T., Palleti, R., Shi, S., Ng, A., Quinn, J. V., Rajpurkar, P.
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- **SARS-CoV-2 RNAemia predicts clinical deterioration and extrapulmonary complications from COVID-19.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
  Ram-Mohan, N. n., Kim, D. n., Zudock, E. J., Hashemi, M. M., Tjandra, K. C., Rogers, A. J., Blish, C. A., Nadeau, K. C., Newberry, J. A., Quinn, J. V., O'Hara, R. n., Ashley, E. n., Nguyen, et al
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- **A Body Bag Can Save Your Life: A Novel Method of Cold Water Immersion for Heat Stroke Treatment** *A Body Bag Can Save Your Life: A Novel Method of Cold Water Immersion for Heat Stroke Treatment*
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- **An Interpretable Deep Learning Model for the Prevention of Self-Harm and Suicide**
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- **Exposure, hazard, and survival analysis of diffusion on social networks** *STATISTICS IN MEDICINE*
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- **Social connectedness is associated with fibrinogen level in a human social network** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
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