



Jiyeong Kim

Postdoctoral Scholar, Dermatology

Bio

BIO

Dr. Jiyeong Kim is a post-doctoral scholar at the Stanford Center for Digital Health and the Department of Dermatology School of Medicine. As a multi-disciplined data scientist, Dr. Kim applies artificial intelligence (AI) to clinical informatics, harnessing patient-generated health information and data to enhance patient-centered care, which could be tailored to each patient group for improving patient engagement and better health outcomes. In her work, Dr. Kim leverages large language models, machine learning, and natural language processing to understand patients' and caregivers' genuine voices of care needs and needed support for individuals with chronic diseases, not limited to diabetes, cardiovascular disease, and cancer.

Research Interest

- LLMs and Generative AI to Listen to the Patient
- Generative AI-Assisted Enhanced Patient Care
- ML-based Disease Prediction Modeling
- Patient-Generated Data and Precision Health

HONORS AND AWARDS

- K01 Mentored Research Scientist Career Development Award, National Institute of Mental Health (NIMH) (July 2024)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Davis (2023)
- PhD, University of California, Davis , Public Health Sciences (2023)
- MPH, Johns Hopkins Bloomberg School of Public Health , Public Health (2014)
- BPharm, Chung-Ang University , Pharmacy (2007)

STANFORD ADVISORS

- Eleni Linos, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Towards AI-augmented decision making in psychiatry** *NATURE MACHINE INTELLIGENCE*
Kim, J., Rodriguez, C. I.
2026; 8 (6): 864-865

- **Optimizing large language models for detecting symptoms of depression/anxiety in chronic diseases patient communications.** *NPJ digital medicine*
Kim, J., Ma, S. P., Chen, M. L., Galatzer-Levy, I. R., Torous, J., van Roessel, P. J., Sharp, C., Pfeffer, M. A., Rodriguez, C. I., Linos, E., Chen, J. H.
2025; 8 (1): 580
- **Assessing the Performance of Artificial Intelligence Models in Evaluating Inflammatory Skin Disease Severity: A Systematic Review and Meta-Analysis.** *The British journal of dermatology*
Cai, Z. R., Kim, J., Rezaei, S. J., Chen, M. L., Touma, F., Zhu, C., Onyeka, S., Fonjungo, F., Omiye, J. A., Krakowski, I., Nwandu, L., Biossonnette, R., Ko, et al
2025
- **Artificial Intelligence in Obsessive-Compulsive Disorder: A Systematic Review.** *Current treatment options in psychiatry*
Kim, J., Pacheco, J. P., Golden, A., Aboujaoude, E., van Roessel, P., Gandhi, A., Mukunda, P., Avanesyan, T., Xue, H., Adeli, E., Kim, J. P., Saggat, M., Stirman, et al
2025; 12 (1): 23
- **Patient-Centered Research Through Artificial Intelligence to Identify Priorities in Cancer Care.** *JAMA oncology*
Kim, J., Chen, M. L., Rezaei, S. J., Ramirez-Posada, M., Caswell-Jin, J. L., Kurian, A. W., Riaz, F., Sarin, K. Y., Tang, J. Y., Asch, S. M., Linos, E.
2025
- **Artificial intelligence tools in supporting healthcare professionals for tailored patient care.** *NPJ digital medicine*
Kim, J., Chen, M. L., Rezaei, S. J., Hernandez-Boussard, T., Chen, J. H., Rodriguez, F., Han, S. S., Lal, R. A., Kim, S. H., Dosiou, C., Seav, S. M., Akcan, T., Rodriguez, et al
2025; 8 (1): 210
- **Perspectives on Artificial Intelligence-Generated Responses to Patient Messages.** *JAMA network open*
Kim, J., Chen, M. L., Rezaei, S. J., Liang, A. S., Seav, S. M., Onyeka, S., Lee, J. J., Vedak, S. C., Mui, D., Lal, R. A., Pfeffer, M. A., Sharp, C., Pageler, et al
2024; 7 (10): e2438535
- **Large language models outperform mental and medical health care professionals in identifying obsessive-compulsive disorder.** *NPJ digital medicine*
Kim, J., Leonte, K. G., Chen, M. L., Torous, J. B., Linos, E., Pinto, A., Rodriguez, C. I.
2024; 7 (1): 193
- **Analysing common topics of secure patient messages in hidradenitis suppurativa: a text-embedding and natural language-processing approach.** *The British journal of dermatology*
Chen, M. L., Kim, J., Naik, H. B., Aleshin, M. A., Sarin, K. Y., Barnes, L. A., Linos, E.
2024
- **Telehealth Utilization and Associations in the United States During the Third Year of the COVID-19 Pandemic: Population-Based Survey Study in 2022.** *JMIR public health and surveillance*
Kim, J., Cai, Z. R., Chen, M. L., Onyeka, S., Ko, J. M., Linos, E.
2024; 10: e51279
- **Human-AI interaction in skin cancer diagnosis: a systematic review and meta-analysis.** *NPJ digital medicine*
Krakowski, I., Kim, J., Cai, Z. R., Daneshjou, R., Lapins, J., Eriksson, H., Lykou, A., Linos, E.
2024; 7 (1): 78
- **Assessment of correctness, content omission, and risk of harm in large language model responses to dermatology continuing medical education questions.** *The Journal of investigative dermatology*
Cai, Z. R., Chen, M. L., Kim, J., Novoa, R. A., Barnes, L. A., Beam, A., Linos, E.
2024
- **Prevalence and associations of poor mental health in the third year of COVID-19: U.S. population-based analysis from 2020 to 2022.** *Psychiatry research*
Kim, J., Linos, E., Rodriguez, C. I., Chen, M. L., Dove, M. S., Keegan, T. H.
2023; 330: 115622
- **Assessing Biases in Medical Decisions via Clinician and AI Chatbot Responses to Patient Vignettes.** *JAMA network open*
Kim, J., Cai, Z. R., Chen, M. L., Simard, J. F., Linos, E.

2023; 6 (10): e2338050

- **Effectiveness of Digital Mental Health Tools to Reduce Depressive and Anxiety Symptoms in Low- and Middle-Income Countries: Systematic Review and Meta-analysis.** *JMIR mental health*
Kim, J., Aryee, L. M., Bang, H., Prajogo, S., Choi, Y. K., Hoch, J. S., Prado, E. L.
2023; 10: e43066
- **Machine learning and deep learning-based drug-drug interactions prediction: a systematic review focused on anticancer drugs.** *NPJ precision oncology*
Zhao, Y., Wang, J., Kim, J., Rodriguez, F., Linos, E., Na, R., Al-Jamal, K. T., Li, X.
2026
- **Unseen Insights: An AI-Powered Exploration of Secure Patient Messages in Ophthalmology.** *medRxiv : the preprint server for health sciences*
Kim, J. Y., Fazal, Z. Z., Wang, S. Y., Chang, R. T., Linos, E., Sepah, Y. J.
2026
- **Development of Secondary Cancers in Pre- vs Post-ICI Eligibility Periods for Metastatic Cancers.** *JAMA network open*
Li, A., Kim, J., Win, T. S., Chen, M. L.
2026; 9 (2): e2557807
- **ARTIFICIAL INTELLIGENCE IN EVIDENCE SYNTHESIS: A SYSTEMATIC REVIEW AND META-ANALYSIS OF EMERGING BIOLOGICS FOR IMPROVING SKELETAL HEALTH IN OSTEOGENESIS IMPERFECTA**
Li, C., Dai, Z., Tang, W., Gao, Z., Chan, V. K. Y., Ramirez-Posada, M., Kim, J., Cheung, C. L., Wong, I., Dong, D., To, M., Craig, D., Li, et al
ELSEVIER SCIENCE INC.2025
- **Limitations in Artificial Intelligence-Driven Patient-Centered Cancer Nursing Research-Reply.** *JAMA oncology*
Kim, J., Linos, E.
2025
- **Seeing Beyond the Screen: An AI-Powered Exploration of Ophthalmology Patient Messaging at Stanford Medicine**
Fazal, Z., Kim, J., Shaik, M., Janjua, K., Linos, E., Sepah, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Mental health care needs of caregivers of people with Alzheimer's disease from online forum analysis.** *Npj mental health research*
Kim, J., Cai, Z. R., Chen, M. L., Rezaei, S. J., Onyeka, S., Rodriguez, C. I., Hernandez-Boussard, T., Filkov, V., Whitmer, R. A., Linos, E., Choi, Y. K.
2024; 3 (1): 54
- **Mental Health, Sleep and General Health Among Individuals With Dermatologic Conditions: A US Population-Based Study Using the National Health and Nutrition Examination Survey (NHANES).** *Experimental dermatology*
Rezaei, S. J., Chen, M. L., Kim, J., Linos, E.
2024; 33 (10): e15195
- **Skin Cancer and Other Dermatologic Conditions Among US Veterans.** *JAMA dermatology*
Rezaei, S. J., Kim, J., Onyeka, S., Swetter, S. M., Weinstock, M. A., Asch, S. M., Linos, E.
2024
- **Development of Melanoma and Other Nonkeratinocyte Skin Cancers After Thyroid Cancer Radiation.** *JAMA network open*
Rezaei, S. J., Chen, M. L., Kim, J., John, E. M., Sunwoo, J. B., Linos, E.
2024; 7 (9): e2434841
- **Incidence of Suicide Among Melanoma and Non-Keratinocyte Skin Cancer Patients in the US, 2000-2020.** *Journal of the American Academy of Dermatology*
Chen, M. L., Rezaei, S. J., Kim, J., Rodriguez, C., Swetter, S. M., O'Hara, R., Linos, E.
2024
- **Impact of COVID-19, cancer survivorship and patient-provider communication on mental health in the US Difference-In-Difference.** *Npj mental health research*
Kim, J., Linos, E., Dove, M. S., Hoch, J. S., Keegan, T. H.
2023; 2 (1): 14
- **Cancer survivors with sub-optimal patient-centered communication before and during the early COVID-19 pandemic.** *Patient education and counseling*

Kim, J., Fairman, N. P., Dove, M. S., Hoch, J. S., Keegan, T. H.
2023; 115: 107876

- **Factors Associated with Online Patient-Provider Communications Among Cancer Survivors in the United States during COVID: A Cross-Sectional Study.** *JMIR cancer*

Kim, J., Linos, E., Fishman, D. A., Dove, M. S., Hoch, J. S., Keegan, T. H.
2023

- **Characterizing risky alcohol use, cigarette smoking, e-cigarette use, and physical inactivity among cancer survivors in the USA-a cross-sectional study** *JOURNAL OF CANCER SURVIVORSHIP*

Kim, J., Keegan, T. H.
2022

- **Sociodemographic factors associated with HPV awareness/knowledge and cervical cancer screening behaviors among caregivers in the U.S** *BMC WOMENS HEALTH*

Kim, J., Dove, M. S., Dang, J. H. T.
2022; 22 (1): 335

- **The Rationale for Economic Evaluation in Speech and Language: Cost, Effectiveness, and Cost-effectiveness** *SEMINARS IN SPEECH AND LANGUAGE*

Hoch, J. S., Smith, B. P., Kim, J., Dewa, C. S.
2022; 43 (03): 208-217