# Postdoctoral Fellowship in Cancer Epidemiology at Stanford University

Stanford University School of Medicine
Quantitative Sciences Unit
Stanford Center for Biomedical Informatics Research

Applications are invited for a postdoctoral fellow position in cancer epidemiology to join Dr. Summer Han's research group in the Stanford Center for Biomedical Informatics Research at Stanford University. This position emphasizes conducting real-world evidence studies using various causal inference methods (e.g., target trial emulation) to examine efficient cancer screening, surveillance, and treatment strategies using an integrated database of the electronic health records from Stanford Healthcare and Sutter Health, which are linked to the California Cancer Registry, as part of the national SEER registries. The postdoc fellow will work closely with statisticians, computer scientists, oncologists, and epidemiologists in the lab and in other collaborating labs at Stanford to tackle emerging clinical questions in oncology, utilizing various AI methods, predictive modeling approaches, and large language models. Specific areas of interest include but are not limited to (1) electronic health records, (2) causal inference,  (3) natural language processing and large language models,  (4) generative AI, (5) dynamic risk prediction modeling for high-dimensional survival data using longitudinal features, and (6) machine learning and deep learning for analyzing time-to-event outcomes, or (7) radiomics and medical imaging analysis.

We seek an individual with strong statistical and computing backgrounds. Successful applicants should have a Ph.D. degree in Epidemiology (or biostatistics or related field). Strong programming skill in R is required, and experience in SQL or other databases would be welcome.

Please email a cover letter, CV, a short description of research interests, and contact information of three referees to:



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Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty and academic staff. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the University's research, teaching and clinical missions.