



## Geoffrey Tso

Clinical Assistant Professor, Medicine - Primary Care and Population Health

### CLINICAL OFFICE (PRIMARY)

- **Stanford Express Care**

211 Quarry Rd Ste 102

MC 5989

Palo Alto, CA 94304

Tel (650) 736-5211      Fax (650) 736-5299

### Bio

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#### BIO

Dr. Geoffrey Tso is a board-certified internal medicine physician who provides comprehensive care ranging from preventive health care to the management of chronic medical conditions. He strives to improve access to healthcare, and partners with his patients to provide evidence-based care tailored to the individual.

Dr. Tso is board-certified in clinical informatics and completed a postdoctoral research fellowship in Medical Informatics at the Center for Innovation to Implementation (Ci2i) at the VA in Palo Alto and the Center for Health Policy/Primary Care and Outcomes Research (CHP/PCOR) in the Stanford University School of Medicine. He has expertise in the research and implementation of generative AI technologies such as large language models. His other informatics interests include: improving patient care through clinical decision support systems, modeling knowledge for computer systems and interoperability, enhancing healthcare with AI and machine learning, using telehealth to transform how patients interface with healthcare, and innovating via digital health initiatives.

#### CLINICAL FOCUS

- Internal Medicine

#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Primary Care and Population Health

#### PROFESSIONAL EDUCATION

- Board Certification, American Board of Preventative Medicine , Clinical Informatics (2018)
- Board Certification, American Board of Internal Medicine , Internal Medicine (2015)
- Fellowship, Stanford University School of Medicine / Palo Alto VA Healthcare System , Medical Informatics (2017)
- Residency, UCLA-Olive View , Internal Medicine (2015)
- Doctor of Medicine, Albert Einstein College of Medicine (2012)

- Postbaccalaureate, University of Pennsylvania , Pre-Medicine
- Bachelor of Science, University of California, Berkeley , Electrical Engineering and Computer Science

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Clinical Informatics, Generative AI, LLM, Clinical Decision Support, Digital Health, Multimorbidity, Preventive Health, Telemedicine, Telehealth, Machine Learning, Artificial Intelligence

## Publications

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### PUBLICATIONS

- **Enhancing LLM-as-a-Judge through Active-Sampling-based Prompt Optimization**  
Zhen, C., Zheng, E., Kuang, J., Tso, G. J.  
2025
- **MED-OMIT: Extrinsically-Focused Evaluation Metric for Omissions in Medical Summarization**  
Schumacher, E., Rosenthal, D., Naik, D., Nair, V., Price, L., Tso, G. J., Kannan, A.  
2024
- **DERA: Enhancing Large Language Model Completions with Dialog-Enabled Resolving Agents** *arXiv:2303.17071*  
Nair, V., Schumacher, E., Tso, G. J., Kannan, A.  
2023
- **Interruptive Electronic Alerts for Choosing Wisely Recommendations: A Cluster Randomized Controlled Trial.** *Journal of the American Medical Informatics Association : JAMIA*  
Ho, V. T., Aikens, R. C., Tso, G., Heidenreich, P. A., Sharp, C., Asch, S. M., Chen, J. H., Shah, N. K.  
2022
- **Open Set Medical Diagnosis** *Machine Learning for Healthcare (ML4H) Workshop at NeurIPS 2019*  
Prabhu, V., Kannan, A., Tso, G. J., Katariya, N., Chablani, M., Sontag, D., Amatriain, X.  
2019
- **Learning from the experts: From expert systems to machine-learned diagnosis models** *Proceedings of the 3rd Machine Learning for Healthcare Conference*  
Ravuri, M., Kannan, A., Tso, G. J., Amatriain, X.  
2018; 85: 227-243
- **High-Risk Drug-Drug Interactions Between Clinical Practice Guidelines for Management of Chronic Conditions.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*  
Tso, G. J., Tu, S. W., Musen, M. A., Goldstein, M. K.  
2017; 2017: 531–39
- **West Nile Meningoencephalitis Presenting as Isolated Bulbar Palsy With Hypercapnic Respiratory Failure: Case Report and Literature Review.** *Journal of intensive care medicine*  
Tso, G., Kaldas, K., Springer, J., Barot, N., Kamangar, N.  
2016; 31 (4): 285-287
- **Test Case Selection in Pre-Deployment Testing of Complex Clinical Decision Support Systems.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*  
Tso, G. J., Yuen, K., Martins, S., Tu, S. W., Ashcraft, M., Heidenreich, P., Hoffman, B. B., Goldstein, M. K.  
2016; 2016: 240-249
- **Automating Guidelines for Clinical Decision Support: Knowledge Engineering and Implementation.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Tso, G. J., Tu, S. W., Oshiro, C., Martins, S., Ashcraft, M., Yuen, K. W., Wang, D., Robinson, A., Heidenreich, P. A., Goldstein, M. K.  
2016; 2016: 1189-1198

- **Normal Echocardiographic Measurements in Uncomplicated Pregnancy, a Single Center Experience** *Journal of Cardiovascular Disease Research*  
Tso, G. J., et al  
2014