



April Shichu Liang

Clinical Assistant Professor, Medicine

CLINICAL OFFICE (PRIMARY)

- **Stanford University Medical Center Hospital Medicine**

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Bio

BIO

April S. Liang, M.D., is a Board-Certified internist and Clinical Informaticist. She serves as Clinical Assistant Professor in the Stanford Division of Hospital Medicine as well as Medical Informatics Director. Dr. Liang holds a B.S.E. in Computer Science from Princeton University and an M.D. from UCSF School of Medicine. She completed Internal Medicine residency at UCSF and Clinical Informatics fellowship at Stanford. Dr. Liang's informatics interests include the implementation of AI tools in healthcare and data-driven quality improvement. Her past work includes the integrating a machine learning-driven clinical decision support tool in the EHR targeting lab overutilization and measuring the impact of ambient AI scribes on clinician documentation time.

CLINICAL FOCUS

- Internal Medicine
- Hospital Medicine
- Medical Informatics
- Machine Learning
- Artificial Intelligence
- Clinical Decision Support

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine

HONORS AND AWARDS

- Research Abstracts Overall Winner, Society of Hospital Medicine Converge Conference (April 2025)
- 2nd Place Winner, AMIA/HL7 FHIR App Competition (November 2024)
- Pediatrics Fellow Scholarship Award, Stanford Department of Pediatrics (December 2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Interim Secretary, Physicians in AMIA (PINA) (2025 - present)
- Executive Board, Chair of Networking, AMIA Clinical Informatics Fellows (ACIF) (2024 - 2025)
- Project Leader, Stanford Resident Safety Council (2024 - 2025)
- Co-Chair, Housestaff Information Technology Enhancement Council (HITEC) (2024 - 2025)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Clinical Informatics Fellowship (2025) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2023)
- Residency: UCSF Dept of Internal Medicine (2023) CA
- Medical Education: University of California at San Francisco School of Medicine (2020) CA
- Fellowship, Stanford University , Clinical Informatics (2025)
- Residency, UCSF , Internal Medicine (2023)
- MD, UCSF (2020)
- BSE, Princeton University , Computer Science (2015)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Clinical Informatics (Fellowship Program)

Publications

PUBLICATIONS

- **Physician-Reported Safety Outcomes of AI-Generated Hospital Course Summaries.** *JAMA network open*
Grolleau, F., Liang, A. S., Keyes, T., Ma, S. P., Lew, T., Huynh, T. R., Steele, N., Chung, P., Qin, P., Chandra, G., Wang, S. F., Mullen, E., Carpenter, et al
2026; 9 (5): e2616556
- **MedFactEval and MedAgentBrief: A Framework and Workflow for Generating and Evaluating Factual Clinical Summaries.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Grolleau, F., Alsentzer, E., Keyes, T., Chung, P., Swaminathan, A., Aali, A., Hom, J., Huynh, T., Lew, T., Liang, A., Chu, W., Steele, N., Lin, et al
2026; 31: 388-399
- **Artificial intelligence translation in healthcare: an urgent call for evidence-informed policy frameworks.** *BMJ health & care informatics*
Anyagbuna, C., Steele, N., Liang, A. S., Ma, S. P., Lopez, I., Chilukuri, N., Patel, K., Schulman, K., Chen, J. H.
2026; 33 (1)
- **Artificial intelligence-generated draft replies to patient messages in pediatrics.** *JAMIA open*
Liang, A. S., Vedak, S., Dussaq, A., Yao, D., Villarreal, J. A., Thomas, S., Chen, N., Townsend, T., Pageler, N. M., Morse, K.
2025; 8 (6): ooaf159
- **Physician Perspectives on Ambient AI Scribes.** *JAMA network open*
Shah, S. J., Crowell, T., Jeong, Y., Devon-Sand, A., Smith, M., Yang, B., Ma, S. P., Liang, A. S., Delahaie, C., Hsia, C., Shanafelt, T., Pfeffer, M. A., Sharp, et al
2025; 8 (3): e251904
- **Clinical entity augmented retrieval for clinical information extraction.** *NPJ digital medicine*
Lopez, I., Swaminathan, A., Vedula, K., Narayanan, S., Nateghi Haredasht, F., Ma, S. P., Liang, A. S., Tate, S., Maddali, M., Gallo, R. J., Shah, N. H., Chen, J. H.
2025; 8 (1): 45

- **Feasibility of Automated Precharting using GPT-4 in New Specialty Referrals.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*
Liang, A. S., Banda, J. M., Savage, T., Pandya, A., Carey, R., Megwalu, U. C., Chang, M. T., Dash, D., Corbin, C. K., Sharma, A., Thapa, R., Kotecha, N., Shah, et al
2025; 2025: 312-321
- **Ambient artificial intelligence scribes: utilization and impact on documentation time.** *Journal of the American Medical Informatics Association : JAMIA*
Ma, S. P., Liang, A. S., Shah, S. J., Smith, M., Jeong, Y., Devon-Sand, A., Crowell, T., Delahaie, C., Hsia, C., Lin, S., Shanafelt, T., Pfeffer, M. A., Sharp, et al
2024
- **Ambient artificial intelligence scribes: physician burnout and perspectives on usability and documentation burden.** *Journal of the American Medical Informatics Association : JAMIA*
Shah, S. J., Devon-Sand, A., Ma, S. P., Jeong, Y., Crowell, T., Smith, M., Liang, A. S., Delahaie, C., Hsia, C., Shanafelt, T., Pfeffer, M. A., Sharp, C., Lin, et al
2024
- **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
- **Using a Large Language Model to Identify Adolescent Patient Portal Account Access by Guardians.** *JAMA network open*
Liang, A. S., Vedak, S., Dussaq, A., Yao, D. H., Morse, K., Ip, W., Pageler, N. M.
2024; 7 (6): e2418454
- **SMARTALERT: DESIGNING A MACHINE LEARNING-DRIVEN CLINICAL ALERT BASED ON PROVIDER ATTITUDES**
Liang, A. S., Ma, S. P., Pham, T. D., Shieh, L., Sharp, C., Chen, J.
SPRINGER.2024: S925
- **Transcription-independent TFIIIC-bound sites cluster near heterochromatin boundaries within lamina-associated domains in *C. elegans*.** *Epigenetics & chromatin*
Stutzman, A. V., Liang, A. S., Beilinson, V., Ikegami, K.
2020; 13 (1): 1
- **Large Scale Semi-Automated Labeling of Routine Free-Text Clinical Records for Deep Learning.** *Journal of digital imaging*
Trivedi, H. M., Panahiazar, M., Liang, A., Lituiev, D., Chang, P., Sohn, J. H., Chen, Y. Y., Franc, B. L., Joe, B., Hadley, D.
2019; 32 (1): 30-37
- **Development and Validation of an Electronic Health Record-Based Machine Learning Model to Estimate Delirium Risk in Newly Hospitalized Patients Without Known Cognitive Impairment.** *JAMA network open*
Wong, A., Young, A. T., Liang, A. S., Gonzales, R., Douglas, V. C., Hadley, D.
2018; 1 (4): e181018