

Stanford



Julie Jung Hyun Lee

Clinical Assistant Professor, Medicine - Primary Care and Population Health

Bio

BIO

Julie Lee is a board-certified internal medicine physician and clinical informaticist at Stanford University. Dr. Lee's expertise in clinical informatics enables her to use informatics-driven approaches and clinically integrate AI models to improve patient health outcomes, alleviate physician burnout by streamlining workflows, and champion health equity at all levels. Dr. Lee focuses on clinical feasibility of AI implementation in healthcare systems and also leveraging patient data and AI models to identify/mitigate health disparities, making certain they function as instruments of equity rather than increasing gaps.

Dr. Lee has been key to several initiatives in improving operational processes within Stanford. Her efforts include: 1) advancing the governance and operations of Clinical Decision Support, 2) strategic integration of the Prescription Drug Monitoring Program into the electronic health record (EHR) to address the opioid crisis 3) human factors analysis of the usability of health information technology on physicians and patient outcomes. Additionally, she has worked on innovative solutions to improve patient-physician communications--including the creation of a dynamic EHR tool for better triage and processing by medical staff before a medical advice request reaches the doctors.

Health equity is her north star, informing Dr. Lee to dedicated engagement with historically underrepresented populations in medical research and collaborative partnerships between academia and community healthcare practitioners. Her previous role as an EpiScholar with the Los Angeles Department of Public Health involved researching the impact of language and acculturation on the Latino population's dietary habits and health behaviors, with a particular focus on diabetes. She has also worked with community health centers in east Los Angeles to bridge the translational gap between academic research and frontline healthcare workers, facilitating the transfer of cutting-edge liver disease research to those treating patients with substance abuse-related liver conditions.

Of major clinical interest is cardiovascular disease—she has published several papers including a landmark article on the impact of sex-specific risk factors for cardiovascular disease in women and transgender population. She is interested in improving precision health for Asians and NHPI.

ACADEMIC APPOINTMENTS

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

HONORS AND AWARDS

- Physician Wellness Poster Finalist, American College of Physicians (04/2024)
- Center of Digital Health Student Grant, Stanford Center of Digital Health (04/2024)
- Fellow Abstract Award, American Society of Addiction Medicine (02/2024)
- ODME Conference Scholarship, Stanford School of Medicine Office of Diversity Equity and Inclusion (02/2024)

- Fellowship Research Scholarship, Stanford Pediatrics Fellowship (11/2023)
- Quality Improvement Abstract Award, American College of Physicians (10/2023)
- Overall Innovation Award, Stanford Quality Improvement & Patient Safety Symposium (05/2023)
- Future Physician Leader, High Value Practice Academic Alliance (02/2021)
- Research Honors, University at Buffalo (05/2019)
- Clinical Research First Place Award, Academy of Women's Health (04/2017)
- Clarence Darrow Leadership Award, Rotaract Club of Columbia University (10/2010)
- Milken Scholar, Milken Family Foundation - Milken Institute (05/2007)

PROFESSIONAL EDUCATION

- Fellowship, Stanford University , Clinical Informatics
- Residency, University of California, Riverside , Internal Medicine
- Internship, University of California, Riverside , Internal Medicine
- MD, University at Buffalo , Medicine
- MPH, Yale University , Epidemiology
- BA, Columbia University , Psychology

LINKS

- Julie Lee Website: <https://drjulielee.carrd.co/>

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Clinical Informatics (Fellowship Program)

Publications

PUBLICATIONS

- **Clinical decision support in the electronic health record: a primer for antimicrobial stewards and infection preventionists: work smarter so end users don't work harder.** *Antimicrobial stewardship & healthcare epidemiology : ASHE*
Smith, M. R., Lee, J. J., Holubar, M., Salinas, J. L., Sampson, M. M., Medford, R. J., Chang, A.
2024; 4 (1): e204
- **Clinical Decision Support in the Electronic Health Record: A Primer for Antimicrobial Stewards and Infection Preventionists: Work Smarter so End Users Don't Work Harder** *Antimicrobial Stewardship & Healthcare Epidemiology*
Smith, M., Lee, J. J., Holubar, M., Salinas, J., Sampson, M., Medford, R. J., Chang, A.
2024; 4 (1): e204
- **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
- **Empowering Hospitalized Patients With Diabetes: Implementation of a Hospital-wide CGM Policy With EHR-Integrated Validation for Dosing Insulin.** *Diabetes care*
Lee, M. Y., Seav, S. M., Ongwela, L., Lee, J. J., Aubym, R., Cao, F. Y., Kalinsky, A., Aparicio Ramos, O., Gu, Y., Kingston, K., Ivanovic, M., Buckingham, B. A., Desai, et al
2024
- **Reimagining Primary Care With AI: A Future Within Reach**
Shah, S., et al
Practice Update.

2024

- **Red Teaming Large Language Models in Medicine: Real-World Insights on Model Behavior**
Chang, C.
medrxiv.
2024
- **Paging the Clinical Informatics Community: Respond STAT to Dobbs v Jackson's Women's Health Organization.** *Applied clinical informatics*
Arvisais-Anhalt, S., Ravi, A., Weia, B., Aarts, J., Ahmad, H. B., Araj, E., Bauml, J. A., Benham-Hutchins, M., Boyd, A. D., Brecht-Doscher, A., Butler-Henderson, K., Butte, A., Cardillo, et al
2022
- **After menopause, is an enlarging middle, an enlarging cardiovascular risk factor?** *Menopause (New York, N.Y.)*
Lee, J. J., Shufelt, C. L.
2020; 27 (9): 974-975
- **Cardiovascular implications of gender-affirming hormone treatment in the transgender population.** *Maturitas*
Dutra, E., Lee, J., Torbati, T., Garcia, M., Merz, C. N., Shufelt, C.
2019; 129: 45-49
- **Age at Menarche and Risk of Cardiovascular Disease Outcomes: Findings From the National Heart Lung and Blood Institute-Sponsored Women's Ischemia Syndrome Evaluation.** *Journal of the American Heart Association*
Lee, J. J., Cook-Wiens, G., Johnson, B. D., Braunstein, G. D., Berga, S. L., Stanczyk, F. Z., Pepine, C. J., Bairey Merz, C. N., Shufelt, C. L.
2019; 8 (12): e012406
- **Lagged Versus Difference Score Regression: An Example From a Community-Based Educational Seminar Evaluation** *Pedagogy in Health Promotion*
Valente, T., Lee, J., et al
2017
- **Clinical characteristics associated with Spitz nevi and Spitzoid malignant melanomas: the Yale University Spitzoid Neoplasm Repository experience, 1991 to 2008.** *Journal of the American Academy of Dermatology*
Lott, J. P., Wititsuwannakul, J., Lee, J. J., Ariyan, S., Narayan, D., Kluger, H. H., Lazova, R.
2014; 71 (6): 1077-82
- **The Association Of Acculturation And Poor Nutritional Behavior Among Latinos In The Los Angeles County Health Survey 2007**
Lee, J. J.
Public Theses.
2013
- **Artificial Physics, Swarm Engineering, and the Hamiltonian Method** *World Congress on Engineering and Computer Science*
Kazadi, S., Lee, J. J., Lee, J.
2007