Stanford



Vishnu Ravi

Clinical Assistant Professor, Medicine - Primary Care and Population Health

CLINICAL OFFICE (PRIMARY)

- **Stanford Internal Medicine**

  211 Quarry Rd Rm 302

  3rd Fl

  Palo Alto, CA 94304

  Tel (650) 498-9000 **Fax** (650) 725-7078

Bio

BIO

Dr. Vishnu Ravi combines his expertise as a board-certified, practicing internal medicine physician, senior software engineer, and board-certified clinical informaticist to create transformative solutions for healthcare.

As the Technology Architect for Stanford Medicine Catalyst, the Stanford School of Medicine's flagship innovation program, he designs, develops, and implements innovations including AI-driven platforms for Parkinson's care, chronic cardiovascular disease management, and precision pharmacogenomics that are helping patients receive more personalized and effective care.

At the Stanford Mussallem Center for Biodesign, Vishnu helps lead the center's digital health initiatives spanning education, research, and translation. To support this work, he co-founded Stanford Spezi, an open-source framework and ecosystem for building modular, standards-based digital health solutions that is now used by leading healthcare institutions and companies worldwide.

Vishnu also instructs Stanford's CS342/MED253 Building for Digital Health, an innovative course that brings together computer science, engineering, and medical students with clinical faculty to develop real-world healthcare applications. In 2025, he helped lead the international expansion of this program, with a successful launch at Chalmers University of Technology and University of Gothenburg in Sweden. He is also deeply involved in the effort to weave AI into the medical school curriculum at Stanford.

Vishnu's entrepreneurial experience includes co-founding a TechStars-backed startup and developing COVID-19 solutions deployed internationally. He has pioneered clinical AI applications, creating conversational agents and advanced analytics for unstructured health data, while contributing to international mobile health data standards. He serves as a technical consultant to companies including Google and speaks regularly at industry conferences.

Alongside his technology work, Vishnu maintains his connection to clinical practice as an Internal Medicine physician providing comprehensive primary care to a diverse patient population at Stanford Health Care.

CLINICAL FOCUS

- Internal Medicine
- Primary Care
- Clinical Informatics

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Technology Architect, Stanford Medicine Catalyst, (2023- present)
- Assistant Director, Digital Health & AI, Stanford Mussallem Center for Biodesign, (2022- present)
- Director of Technology, Stanford ARISE Network, (2025- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Medical Informatics Association (2022 - present)

PROFESSIONAL EDUCATION

- Board Certification: Clinical Informatics, American Board of Preventive Medicine (2025)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2019)
- Residency: Icahn School of Medicine at Mount Sinai Hospital Internal Medicine Residency (2019) NY
- Medical Education: Albany Medical College (2016) NY
- BA, Cornell University

Research & Scholarship

CLINICAL TRIALS

- Mobile Application for Patient Engagement and Physician-Directed Remote Management of Heart Failure, Recruiting
- Technology-enabled Management Versus Usual Care for Blood Pressure, Recruiting

PROJECTS

- Stanford Spezi - Stanford University
- Cardinal LifeSpace - Stanford University
- MAST: Medical AI Superintelligence Test - Stanford University

Publications

PUBLICATIONS

- **State of clinical AI in 2026.** *BMJ digital health & AI*
  Worth, J. E., Perez, A., Wu, D. J., Brodeur, P., Tat, E., Manrai, A., Wu, D., Walton, C., McCoy, L. G., Jain, P., Handler, R., Hom, J., Zwaan, et al
  2026; 2 (1): e000113
- **Objectively Measured Life Space Using Participants' Mobile Phones: Cross-Sectional Study.** *JMIR formative research*
  Odden, M. C., Tan, A. X., Lai, S. D., Rhodes, J. D., Judd, S., Sargent, K., Mwanda, S., Rowe, S., Wu, J., King, A. C., Ravi, V.
  2026; 10: e73128

- **Toward a test of medical AI superintelligence.** *Nature medicine*
  Goh, E., Wu, D., Walton, C., McCoy, L. G., Perez, A., Wegner, L., Nateghi Haredasht, F., Luo, L., Lacar, K., Buckley, T., Schoeffler, A., Brodeur, P., Black, et al
  2026
- **Spezi Data Pipeline: Streamlining FHIR-based interoperable digital dealth data workflows.** *NPJ digital medicine*
  Bikia, V., Schmiedmayer, P., Zahedivash, A., Aalami, L., Rao, A., Ravi, V., Turk, M., Ceresnak, S. R., Aalami, O.
  2026
- **Asking the Right Questions: Benchmarking Large Language Models in the Development of Clinical Consultation Templates.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
  McCoy, L. G., Wu, D., Khemani, S., Maharaj, S. K., Pahwa, A., Rosengaus, L., Giang, L., Jee, O., Goh, E., Haredasht, F. N., Chopra, K., Wu, D. J., Conteh, et al
  2026; 31: 400-416
- **Automated Evaluation of Large Language Model Response Concordance with Human Specialist Responses on Physician-to-Physician eConsult Cases.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
  Wu, D. J., Haredasht, F. N., Wu, D., Ravi, V., McCoy, L. G., Weng, Y., Chopra, K., Everett, S. S., Nageeb, G., Chen, W., Ma, S. P., Maharaj, S. K., Tran, et al
  2026; 31: 372-387
- **Seasonal variation in temperature and life-space mobility among older adults: a pilot study using mobile health technology** *INNOVATION IN AGING*
  Tan, A. X., Dobrota Lai, S., Ravi, V., Rhodes, J., Judd, S. E., Odden, M. C.
  2026; 10 (5): igag027
- **Automated Evaluation of Large Language Model Response Concordance with Human Specialist Responses on Physician-to-Physician eConsult Cases**
  Wu, D. J. H., Haredasht, F., Wu, D., Ravi, V., McCoy, L. G., Weng, Y., Chopra, K., Everett, S. S., Nageeb, G., Chen, W., Ma, S. P., Maharaj, S., Jessica Tran, et al
  edited by Altman, R. B., Hunter, L., Ritchie, M. D., Murray, T., Klein, T. E.
  WORLD SCIENTIFIC PUBL CO PTE LTD.2026: 372-387
- **Asking the Right Questions: Benchmarking Large Language Models in the Development of Clinical Consultation Templates**
  McCoy, L. G., Haredasht, F., Chopra, K., Wu, D., Wu, D. J. H., Conteh, A., Khemani, S., Maharaj, S., Ravi, V., Pahwa, A., Weng, Y., Rosengaus, L., Giang, et al
  edited by Altman, R. B., Hunter, L., Ritchie, M. D., Murray, T., Klein, T. E.
  WORLD SCIENTIFIC PUBL CO PTE LTD.2026: 400-416
- **Asking the Right Questions: Benchmarking Large Language Models in the Development of Clinical Consultation Templates** *Pacific Symposium of Biocomputing*
  Liam, M. G., David, W., Sarita, K., Saloni, M. K., et al
  2026: 400-416
- **Automated Evaluation of Large Language Model Response Concordance with Human Specialist Responses on Physician-to-Physician eConsult Cases** *Pacific Symposium on Biocomputing*
  Wu, D. J., Haredasht, F. N., Wu, D., Ravi, V., McCoy, L. G., Weng, Y., Chopra, K., Everett, S. S., Najeeb, G., Chen, W., Ma, S. P., Maharaj, S. K., Tran, et al
  2026: 372-387
- **Dynamic fog computing for enhanced LLM execution in medical applications** *SMART HEALTH*
  Zagar, P., Ravi, V., Aalami, L., Krusche, S., Aalami, O., Schmiedmayer, P.
  2025; 36
- **LLMonFHIR: A Physician-Validated, Large Language Model-Based Mobile Application for Querying Patient Electronic Health Data.** *JACC. Advances*
  Schmiedmayer, P., Rao, A., Zagar, P., Aalami, L., Ravi, V., Zahedivash, A., Yao, D. H., Fereydooni, A., Aalami, O.
  2025; 4 (6 Pt 1): 101780
- **Enhancing Distress Tolerance Skills in Adolescents With Anorexia Nervosa Through the BALANCE Mobile App: Feasibility and Acceptability Study.** *JMIR formative research*

Miranda, C., Matheson, B., Datta, N., Whyte, A., Yang, H. J., Schmiedmayer, P., Ravi, V., Aalami, O., Lock, J.
2025; 9: e70278

- **Towards interoperable digital medication records on FHIR: development and technical validation of a minimal core dataset.** *JMIR medical informatics*
  Salgado-Baez, E., Heidepriem, R., Delucchi Danhier, R., Rinaldi, E., Ravi, V., Poncette, A. S., Dahlhaus, I., Fürstenau, D., Balzer, F., Thun, S., Sass, J.
  2025
- **Analytical performance of targeted long-read HiFi sequencing to detect pharmacogenomic HLA-A and -B alleles implicated in drug-induced hypersensitivity reactions** *Human Immunology*
  Zhang, B., Liao, L., Song, X., Zhu, Q., Ravi, V., Ho, C., Tong, P., Chen, A., Fernandez-Vina, M., Qiao, W., Yang, Y., Scott, S. A.
  2025; 86
- **FACTORS ASSOCIATED WITH OBJECTIVELY MEASURED LIFE-SPACE AND GREEN SPACE IN AGING ADULTS**
  Odden, M., Tan, A., Lai, S., Mwanda, S., Rhodes, D., Judd, S., Ravi, V.
  OXFORD UNIV PRESS.2024: 1242-1243
- **Comprehensive real time remote monitoring for Parkinson's disease using Quantitative DigitoGraphy.** *NPJ Parkinson's disease*
  Hoffman, S. L., Schmiedmayer, P., Gala, A. S., Wilkins, K. B., Parisi, L., Karjagi, S., Negi, A. S., Revlock, S., Coriz, C., Revlock, J., Ravi, V., Bronte-Stewart, H.
  2024; 10 (1): 137
- **Right Patient, Right Specialist, Right Time: Retrieval Augmented Generation for Specialty Referral Routing.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
  Haredasht, F. N., Goh, E., Ravi, V., Ashtari, P., Jiang, Y., Yuldashev, N., Grolleau, F., Gallo, R. J., Shah, A., Hur, E., Chopra, K., Jee, O., Lee, et al
  2024; 2024: 443-450
- **Quantitative DigitoGraphy: a Comprehensive Real-Time Remote Monitoring System for Parkinson's Disease.** *Research square*
  Hoffman, S. L., Schmiedmayer, P., Gala, A. S., Wilkins, K. B., Parisi, L., Karjagi, S., Negi, A. S., Revlock, S., Coriz, C., Revlock, J., Ravi, V., Bronte-Stewart, H.
  2024
- **Design and Implementation of an Electronic Health Record-Integrated Hypertension Management Application.** *Journal of the American Heart Association*
  Funes Hernandez, M., Babakhanian, M., Chen, T. P., Sarraju, A., Seninger, C., Ravi, V., Azizi, Z., Tooley, J., Chang, T. I., Lu, Y., Downing, N. L., Rodriguez, F., Li, et al
  2024; 13 (2): e030884
- **Lessons Learned from an EHR-Integrated Clinical Decision Support Tool** *HRX 2024*
  Babakhanian, M., Miller, A., Ravi, V., Miller, J., Lacar, K., Chen, T., Sandhu, A., Frye, L., Chronos, N., Bhalla, V., Wang, P.
  2024
- **Right Patient, Right Specialist, Right Time: Retrieval Augmented Generation for Specialty Referral Routing.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
  Haredasht, F. N., Goh, E., Ravi, V., Ashtari, P., Jiang, Y., Yuldashev, N., Grolleau, F., Gallo, R. J., Shah, A., Hur, E., Chopra, K., Jee, O., Lee, et al
  2024; 2024: 443-450
- **Utility of smart watches for identifying arrhythmias in children.** *Communications medicine*
  Zahedivash, A., Chubb, H., Giacone, H., Boramanand, N. K., Dubin, A. M., Trela, A., Lencioni, E., Motonaga, K. S., Goodyer, W., Navarre, B., Ravi, V., Schmiedmayer, P., Bikia, et al
  2023; 3 (1): 167
- **CardinalKit: open-source standards-based, interoperable mobile development platform to help translate the promise of digital health.** *JAMIA open*
  Aalami, O., Hittle, M., Ravi, V., Griffin, A., Schmiedmayer, P., Shenoy, V., Gutierrez, S., Venook, R.
  2023; 6 (3): ooad044
- **Lubricin: a novel means to decrease bacterial adhesion and proliferation.** *Journal of biomedical materials research. Part A*
  Aninwene, G. E., Abadian, P. N., Ravi, V., Taylor, E. N., Hall, D. M., Mei, A., Jay, G. D., Goluch, E. D., Webster, T. J.
  2015; 103 (2): 451-62

PRESENTATIONS

- Right Patient, Right Specialist, Right Time: Retrieval Augmented Generation for Specialty Referral Routing - American Medical Informatics Association Annual Symposium 2025
- Conducting Digital Health Research at Stanford University Using a FHIR-Native Open-Source Mobile Application Development Framework - DMEA Connecting Digital Health
- CardinalKit: FHIR-Native Open-Source Mobile Application Development Framework for Digital Health Innovations - American Medical Informatics Association Clinical Informatics Conference 2023
- The Path to a Modular and Standards-Based Digital Health Ecosystem - IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI'23) - Workshop - Unraveling Challenges in Time Series Analysis with Open Source Tools for Digital Health Applications