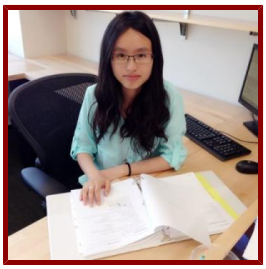
Stanford



Yingjie Weng

Assistant Director, Learning Health Systems Program, Med/Quantitative Sciences Unit

Bio

BIO

As the Assistant Director of the Learning Health Systems (LHS) Program at Stanford's Quantitative Sciences Unit (QSU), I have led the establishment and expansion of the program, fostering key collaborations in quality improvement studies, pragmatic trials, and real-world evidence research. The program implements and evaluates innovative approaches, such as LLM-based or machine-learning-based AI tools, user-specific dashboards, clinical workflow enhancements, and provider and patient education, all underpinned by rigorous statistical principles and advanced modeling techniques to optimize healthcare delivery and decision-making. To support these initiatives, I have developed comprehensive statistical resources, standard operating procedures, and analysis plan templates, while also building a specialized team of statisticians and data scientists. As the program lead, I oversee training efforts, mentor team members, and facilitate onboarding for clinical collaborators, ensuring a strong foundation for continued research and implementation excellence.

In my scientific role as a Senior Biostatistician, I collaborate with clinical researchers, public health agencies, and industry partners to integrate real-world evidence into clinical and public health research. My expertise lies in study design, implementation, and dissemination, particularly in leveraging Electronic Health Records (EHRs), claims data, and registry databases for health policy, hospital quality improvement, and public health initiatives.
I have extensive experience designing and analyzing randomized clinical trials (RCTs), pragmatic trials, and stepped-wedge trial designs, ensuring rigorous statistical methodologies and regulatory compliance.
My primary statistical interests include quasi-experimental designs (e.g., difference-in-difference, interrupted time series), multilevel modeling, missing data techniques, and causal inference. I have served as the lead author on multiple statistical methodology manuscripts.

In terms of mentorship, I supervise junior statisticians and serve as a KL2 methodological research mentor for early-career clinical researchers at Stanford. I also contribute to statistical education by delivering lectures in QSU's statistical methods seminar series for clinical researchers, co-leading the workshop for the 2021 Women in Data Science Conference, and presenting at major statistical conferences such as the Joint Statistical Meetings and Current Statistical Practice 2023.

CURRENT ROLE AT STANFORD

Responsibilities - Assistant Director, Learning Health Systems Program (LHS)

Program Development & Resource Management

• Establish and update LHS program resources, including standard operating procedures, statistical analysis plan templates, and training materials.

Training & Mentorship

• Host onboarding training programs for new QSU hires and conduct regular training sessions within QSU.

• Establish and mentor a core team of statisticians and data scientists dedicated to the LHS program.

Project Oversight & Strategy

• Guide project assignments related to quality improvement, pragmatic trials, and real-world evidence studies utilizing electronic health records (EHRs).

Collaboration & Relationship Management

• Maintain strong partnerships with clinical advocates of LHS projects across collaborating departments.

• Host onboarding sessions with department leaders to communicate the program's mission and objectives.

• Establish collaborations with various data teams across campus

Education & Outreach

• Organize educational sessions and lectures for clinical investigators across partnering departments.

• Serve as the primary point of contact for QSU regarding the LHS program.

Responsibilities - Senior Biostatistician

Scientific Collaboration & Research Support

• Partner with research investigators on a wide range of scientific studies across the School of Medicine and Stanford Healthcare system.

Study Design & Statistical Planning

• Lead the development of study protocols and statistical analysis plans.

Data Management & Analysis

• Perform data management, visualization, and statistical analysis using advanced methodologies and tools.

Results Interpretation & Reporting

• Interpret statistical results and translate findings into clear, domain-specific language for publications and reports.

Grant & Manuscript Development

• Lead statistical methodology and results sections for grant applications, manuscript submissions, and public health reports.

Methodological Research

• Conduct research on statistical methodologies to enhance study designs and analytical approaches.

Mentorship & Teaching

• Mentor junior statisticians and serve as a KL2 research methodology mentor.

• Deliver lectures, including presentations for Hospital Medicine Grand Rounds.

HONORS AND AWARDS

- Member at Delta Omega Public Health Honor Society Chapter Alpha, Johns Hopkins University, Bloomberg School of Public Health (May 2014)
- Nancy-Fink Scholarship, Johns Hopkins University, Bloomberg School of Public Health (May 2013)

EDUCATION AND CERTIFICATIONS

- SAS Programmer, SAS , Statistical Programming (2013)
- Certificate, Johns Hopkins University, Bloomberg School of Public Health , Public Health Informatics (2014)
- Certficate, Johns Hopkins University, Bloomberg School of Public Health , Environmental and Occupational Health (2013)
- BS, Fudan University , Biology (2012)
- MHS, Johns Hopkins University, Bloomberg School of Public Health , Epidemiology (2014)

Publications

PUBLICATIONS

- **Public perspectives on artificial intelligence in healthcare in the USA: a cross-sectional survey.** *BMJ digital health & AI*
  Nair, V. P., Handler, R., Tandel, M. D., Weng, Y., Holdsworth, L. M., Goh, E., Sands, R. W., Steele, N. Z., Derry, L. T., Boutin, R. D., DeBell, M., Scott, T., Svec, et al
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- **Evaluating the impact of electronic reminders for primary care physicians on lung cancer-screening rates.** *JTCVS open*
  Kamtam, D. N., Chang, C. C., Weng, Y., Elliott, I. A., Guenthart, B., Liou, D. Z., Backhus, L. M., Berry, M. F., Shrager, J. B., Phadke, A. J., Han, S., Lui, N. S.
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- **Assessment of Zero-Shot Large Language Model (LLM) Assisted Clinical Trial Matching Processes: A Metastatic Cancer Use Case.** *medRxiv : the preprint server for health sciences*
  Weng, Y., Yalamaddi, H., Fu, D., Mishra, A., Bunning, B. J., Martin, A. B., Hope, J., Charu, V., Kurian, A., Desai, M.
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- **Integrating a High Blood Pressure Advisory Across a Primary Care Network.** *JAMA network open*
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- **GPT-4 assistance for improvement of physician performance on patient care tasks: a randomized controlled trial.** *Nature medicine*
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- **Large Language Model Influence on Diagnostic Reasoning: A Randomized Clinical Trial.** *JAMA network open*
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- **Prediction of Donor Heart Acceptance for Transplant and Its Clinical Implications: Results From The Donor Heart Study.** *Circulation. Heart failure*
  Wayda, B., Weng, Y., Zhang, S., Luikart, H., Pearson, T., Nieto, J., Nicely, B., Geraghty, P. J., Belcher, J., Nguyen, J., Neidlinger, N., Groat, T., Malinoski, et al
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- **Exploring human-artificial intelligence interactions in a negative pragmatic trial of computer-aided polyp detection.** *iGIE : innovation, investigation and insights*
  Watkins, K., Ladabaum, U., Olsen, E., Hoogerbrug, J., Mannalithara, A., Weng, Y., Shaw, B., Bohn, R., Singer, S.
  2024; 3 (2): 274-285.e10

- **Adjusting Incidence Estimates with Laboratory Test Performances: A Pragmatic Maximum Likelihood Estimation-Based Approach.** *Epidemiology (Cambridge, Mass.)*
  Weng, Y., Tian, L., Boothroyd, D., Lee, J., Zhang, K., Lu, D., Lindan, C. P., Bollyky, J., Huang, B., Rutherford, G. W., Maldonado, Y., Desai, M., California Pandemic Consortium
  2024

- **Donor Electrocardiogram Associations With Cardiac Dysfunction, Heart Transplant Use, and Survival: The Donor Heart Study.** *JACC. Heart failure*
  Tapaskar, N., Wayda, B., Malinoski, D., Luikart, H., Groat, T., Nguyen, J., Belcher, J., Nieto, J., Neidlinger, N., Salehi, A., Geraghty, P. J., Nicely, B., Jendrisak, et al
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- **Incidence of Neonatal Hypothermia in the Newborn Nursery and Associated Factors.** *JAMA network open*
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- **BELIEFS AND ATTITUDES ABOUT ARTIFICIAL INTELLIGENCE (AI) AMONG COLONOSCOPIST PARTICIPANTS IN A PRAGMATIC IMPLEMENTATION TRIAL OF COMPUTER-AIDED DETECTION (CADE) OF POLYPS THAT DID NOT REPLICATE THE POSITIVE RESULTS OF RANDOMIZED TRIALS**
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- **Characteristics associated with diagnostic yield of imaging for deep venous thrombosis and pulmonary embolism in the emergency department, hospital, and office settings: An Optum Clinformatics claims database study (2015-2019).** *Thrombosis research*
  Rohatgi, N., Dahlen, A., Berube, C., Weng, Y., Wintermark, M., Ahuja, N.
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- **Computer-aided detection of polyps does not improve colonoscopist performance in a pragmatic implementation trial.** *Gastroenterology*
  Ladabaum, U., Shepard, J., Weng, Y., Desai, M., Singer, S. J., Mannalithara, A.
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- **Outcomes of a Neurohospitalist Program at an Academic Medical Center.** *The Neurohospitalist*
  Gold, C. A., Scott, B. J., Weng, Y., Bernier, E., Kvam, K. A.
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- **COVIDNearTerm: A simple method to forecast COVID-19 hospitalizations** *JOURNAL OF CLINICAL AND TRANSLATIONAL SCIENCE*
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  2022; 6 (1)

- **COVIDNearTerm: A simple method to forecast COVID-19 hospitalizations.** *Journal of clinical and translational science*
  Olshen, A. B., Garcia, A., Kapphahn, K. I., Weng, Y., Vargo, J., Pugliese, J. A., Crow, D., Wesson, P. D., Rutherford, G. W., Gonen, M., Desai, M.
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- **Race-ethnicity and COVID-19 Vaccination Beliefs and Intentions: A Cross-Sectional Study among the General Population in the San Francisco Bay Area.** *Vaccines*
  Weng, Y., Lu, D., Bollyky, J., Jain, V., Desai, M., Lindan, C., Boothroyd, D., Judson, T., Doernberg, S. B., Holubar, M., Sample, H., Huang, B., Maldonado, et al
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- **The COVID-19 Outpatient Pragmatic Platform Study (COPPS): Study design of a multi-center pragmatic platform trial.** *Contemporary clinical trials*
  Bunning, B., Hedlin, H., Purington, N., Sundaram, V., Kapphahn, K., Weng, Y., Cunanan, K., Maldonado, Y., Singh, U., Khosla, C., O'Hara, R., Nicolls, M., Springman, et al
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- **Comparison of Adverse Events Among Home- vs Facility-Administered Biologic Infusions, 2007-2017.** *JAMA network open*
  Baker, M. C., Weng, Y., Fairchild, R., Ahuja, N., Rohatgi, N.
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- **Clinical trials in a COVID-19 pandemic: Shared infrastructure for continuous learning in a rapidly changing landscape.** *Clinical trials (London, England)*
  Hedlin, H. n., Garcia, A. n., Weng, Y. n., He, Z. n., Sundaram, V. n., Bunning, B. n., Balasubramanian, V. n., Cunanan, K. n., Kapphahn, K. n., Gummidipundi, S. n., Purington, N. n., Boulos, M. n., Desai, et al
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- **Osteoarthritis risk is reduced after treatment with ticagrelor compared to clopidogrel: a propensity score matching analysis.** *Arthritis & rheumatology (Hoboken, N.J.)*
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  2020

- **Trajectory analysis for postoperative pain using electronic health records: A nonparametric method with robust linear regression and K-medians cluster analysis.** *Health informatics journal*
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- **Initiative for prevention and early identification of delirium in medical-surgical units: Lessons learnt in the past five years.** *The American journal of medicine*

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- **Can Machine Learning Methods Produce Accurate and Easy-to-use Prediction Models of 30-day Complications and Mortality After Knee or Hip Arthroplasty?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
  Harris, A. H. S., Kuo, A. C., Weng, Y., Trickey, A. W., Bowe, T., Giori, N. J.
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- **Associations Between Perioperative Red Cell Transfusion Volume and Clinical Outcomes Following Neonatal and Infant Cardiac Surgery**
  Blinder, J., Tandel, M., Weng, Y., Cholette, J., Borasino, S., Schroeder, L., Bailly, D., Mille, F., Wolf, M.
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- **Operationalizing AI for Cardiovascular Care: An AI and Centralized Outreach-Enabled Workflow for Symptomatic Peripheral Artery Disease Detection**
  Perez Guerrero, E., Jain, S. S., Banda, J., Shah, N. H., Weng, Y., Ross, E., Chen, J., Fukaya, E., Geronimo, R., Schechtman, A., McDonald, V., Villanea, R., Pfeffer, et al
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- **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
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- **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
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- **Lack of Association Between Donor Left Ventricular Hypertrophy and Graft Survival in the Contemporary Era of Heart Transplantation.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Mahar, J. H., Wayda, B., Weng, Y., Zhang, S., Zaroff, J. G., Khush, K. K.
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  Hamilton, S. A., Wayda, B., Weng, Y., Zhang, S., Khush, K. K.

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- **Temperature Percentiles by Hour of Life in the Newborn Nursery.** *Pediatrics*

  Dang, R., Frymoyer, A., Patel, A. I., Weng, Y., Schroeder, A. R.

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- **A Mixed-Methods Evaluation of a Primary Care Remote Blood Pressure Monitoring Quality Improvement Pilot.** *Journal of primary care & community health*

  Bakhshandeh, H., Tehal, S., Fayanju, O., Kodam, S. P., Rokicki-Parashar, J., Seaton, M., Weng, Y., Phadke, A.

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- **The impact of social determinants of health on primary adherence to oral oncolytic medications.** *Journal of oncology pharmacy practice : official publication of the International Society of Oncology Pharmacy Practitioners*

  Uyehara, N., Nguyen, V., Yu, S., Haidar, S., Patneedi, P., Weng, Y., Son, A., Oyekan, E., Ahuja, N.

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- **Reasons for donor heart offer refusal in the United States: Results from 14,132 transplant clinician surveys in the Donor Heart Study.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*

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  Rajapuram, N., Tandel, M. D., Tawfik, D., Weng, Y., Rassbach, C. E., Purkey, N. J.

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- **Reasons for donor heart offer refusal are often unrelated to the donor itself - when, why, and the "weekend effect".** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*

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- **A MIXED METHODS EVALUATION OF A REGIONAL PRIMARY CARE REMOTE BLOOD PRESSURE MONITORING PILOT**
  Tehal, S., Kodam, S., Rokicki-Parashar, J., Weng, Y., Phadke, A.

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- **PATTERNS OF LEFT VENTRICULAR REGIONAL WALL MOTION ABNORMALITIES AFTER BRAIN DEATH AND THEIR CLINICAL SIGNIFICANCE: RESULTS FROM THE DONOR HEART STUDY**
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- **PATTERNS OF LEFT VENTRICULAR REGIONAL WALL MOTION ABNORMALITIES AFTER BRAIN DEATH AND THEIR CLINICAL SIGNIFICANCE: RESULTS FROM THE DONOR HEART STUDY**
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