Kenny Yi | Curriculum Vitae

EMAIL: ktsy@uw.edu

Research Interests

My research lies at the intersection of biomedical informatics, human-computer interaction, and artificial intelligence, focusing on how AI technologies can be integrated into real-world clinical workflows. I design and evaluate ambient, multimodal AI systems that support both clinicians and patients in high-stakes mental health conversations, with an emphasis on trust, transparency, and usability.

Education

2024– **PhD**, Biomedical and Health Informatics: Data Science, University of Washington
GPA: 3.93 / 4.00

2018–2022 **BS**, Biology (Physiology), University of Washington
GPA: 3.77 / 4.00

Research Experience

2026– **Graduate Research Assistant**, Biomedical and Health Informatics, UW
Advisor: Dr. Andrea Hartzler
• Leading a mixed-methods study of clinician preferences for AI-generated, real-time communication feedback

2024–2026 **Graduate Research Assistant**, Biomedical and Health Informatics, UW
Advisor: Dr. Patrick Wedgeworth
• Designed and built a mobile prototype for delivering suicide prevention interventions to adolescents and young adults
• Built a multimodal data pipeline integrating geolocation, survey, and social determinants of health data for models predicting hallucination severity
• Developed interactive visualizations to support participant recruitment

2020–2022 **Undergraduate Research Assistant**, Ola Pasifika Lab, UW
Advisor: Dr. Michael S. Spencer
• Applied logistic regression to examine employment disparities in Pasifika communities during COVID-19

Honors & Awards

2026– National Library of Medicine (NLM) Predoctoral Fellowship

2018–2022 Annual Dean's List, University of Washington

Publications

PEER-REVIEWED PUBLICATIONS

2027 Raj, A., **Yi, K.**, Palli, R., Suresh, P., Chia, C., Tran, M., Lam, B., Hartzler, A., Wedgeworth, P. Do Clinical Notes Reflect Clinical Conversations? A Sentiment Analysis Using the Observer Dataset. To appear in *Proceedings of the 2027*

Pacific Symposium on Biocomputing (PSB '27).

2026 **Yi, K.**, Danzo, S., Chang, D., & Wedgeworth, P. Adolescent and Young Adult Preferences for the Delivery of Caring Contacts and the Incorporation of Artificial Intelligence: A Qualitative Interview Study. *JMIR Formative Research*. In press.

2022 Camacho, S. G., Haitsuka, K., **Yi, K.**, Seia, J., Huh, D., & Spencer, M. S. Examining Employment Conditions During the COVID-19 Pandemic in Pasifika Communities. *Health Equity*, 6(1), 564–573.

ABSTRACTS AND POSTERS

2027 Chia, C., Raj, A., Palli, R., Cohen, T., Suresh, P., Tran, M., **Yi, K.**, Wedgeworth, P., Hartzler, A., Lam, B. Iterative Prompt Engineering to Evaluate Interpersonal Communication During Clinical Encounters with Large Language Models. Abstract to be presented at *WMRC 2027*.

2026 Chang, D., Danzo, S., Wedgeworth, P., **Yi, K.** Patient and Caregiver Perspectives Regarding Delivery of Caring Contacts and Remote Monitoring for Suicide Risk. Poster presented at *Collaborative Family Health Association (CFHA) Annual Conference 2026*.

2025 Ji, Z., Kim, C., **Yi, K.**, & Gennari, J. Utilizing Ontologies to Map the Intervention Landscape of Depression. Poster presented at *AMIA 2025 Annual Symposium*.

IN PREPARATION

Wedgeworth, P., Sandel-Fernandez, D., & **Yi, K.** Multimodal Digital Phenotyping of Auditory Verbal Hallucinations. In preparation.

Teaching & Mentoring

TEACHING

2025 Guest Lecture, BIME 435: Introduction to Biomedical and Health Informatics, University of Washington, February 2025
"Medical Imaging Informatics"

STUDENT MENTORING

2020–2021 Student Mentor, UW Neurobiology Club
Mentored three undergraduates through bi-weekly 1:1 meetings; all were admitted to their major of choice

Projects

2026– **Evaluating Video Remote Interpretation in Palliative Care**
Qualitative analysis of 50+ interviews with clinicians, social workers, and medical interpreters utilizing Sittig and Singh's sociotechnical model to map how video remote interpretation impacts the delivery of palliative care

2025 **NeuroConnect**
Designed personas, storyboards, and user interfaces for an interactive 3D visualization tool for exploring white matter tract connectivity patterns in Alzheimer's disease

2024 **Single-cell Deep Learning in Alzheimer's Disease**
Adapted Beebe-Wang et al.'s deep learning framework to single-cell RNA-seq data to predict Alzheimer's disease and cell-type-specific phenotypes

Professional Experience

2022–2024 **Medical Data Specialist**, All4Cure, Seattle, WA
Extracted oncology biomarkers and patient histories from EHRs; built interactive dashboards for 100+ myeloma patients to improve oncologist access to longitudinal biomarker and treatment-response data

2022 **Medical Assistant**, Lifespring Cancer Treatment Center
Collected vitals, assisted in clinical examinations, and documented medical history in the EHRs

2021–2022 **Student Assistant**, UW Medical Center
Admitted and screened patients at the hospital front desk and guided patients to appointments

2019–2021 **IT Student Assistant**, UW Foster School of Business Learning Spaces IT
AV support for 50+ classrooms and labs; wrote troubleshooting manuals for training new staff

Service & Leadership

2024–2026 **First Year Peer Mentor**, UW Biomedical and Health Informatics

2024–2026 **Student Social Committee Member**, UW Biomedical and Health Informatics

2019–2022 **Director of Finance and Outreach**, UW Alpha Theta Delta

2018–2020 **President**, UW Cuisine Club

Certifications & Skills

CERTIFICATIONS

2023 Mathematics for Machine Learning and Data Science Specialization, Coursera

2023 Google Data Analytics Professional Certificate, Coursera

SKILLS

Programming Python, R, SQL, Java, JavaScript, HTML, CSS, LaTeX

Tools Figma, Miro, REDCap, Dedoose, Atlas.ti, MAXQDA, Git, GitHub, PostgreSQL, Excel, PyTorch, TensorFlow, scikit-learn