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Peiqi Guo

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EDUCATION

The University of Texas Health Science Center at Houston <i>PhD in Public Health - Healthcare Management and Health Policy</i> <i>Minor in Epidemiology & Biostatistics</i> (Advisor: Dr. Aanand Naik Co-Advisor: Dr. Kaiming Bi)	Houston, Texas 08/2024 - Pursuing
Washington University in St. Louis <i>Master of Information Systems Management (MISM)</i> <i>Master of Engineering Management (MEM)</i>	St. Louis, Missouri 01/2024
University of California, Davis <i>B.S. in Cognitive Science (Computational Emphasis)</i> <i>Minor in Philosophy</i>	Davis, California 06/2021

RESEARCH INTERESTS

Health Policy and System Research and Health Informatics in Dementia, Epidemiology and Chronic Disease.

PUBLICATIONS

Journal/Book Chapter:

3. **Guo, P.**, & Hong, P. Y. P. (2026). AI in the Evolving Workplace. In *Artificial Intelligence in Social Work* (pp. 405-426). Springer, Cham.
2. **Guo, P.**, Liu, G., Xiang, X., & An, R. (2025). From AI to the Table: A Systematic Review of ChatGPT’s Potential and Performance in Meal Planning and Dietary Recommendations. *Dietetics*, 4(1), 7.
1. Huang, J., **Guo, P.**, Zhang, S., Ji, M., & An, R. (2024). Use of Deep Neural Networks to Predict Obesity with Short Audio Recordings: Development and Usability Study. *JMIR AI*, 3, e54885.

Conferences/Posters/Abstracts:

2. Yang, F., Zhao, X., & **Guo, P.** (2025, October 23). *Enhancing health equity through AI-powered health education: A systematic review and comparative analysis of diverse health app ecosystems* [Conference Proposal]. 2025 Council on Social Work Education (CSWE) Annual Program Meeting, Denver, CO, United States.
1. **Guo, P.**, Naik, A. D., Peel, E., Zheng, I., Barrera, J., Naik, E., & Samper-Ternent, R. (2025, May 8–10). “Aging in Place” interactive website project: An educational tool and decision-making resource [Abstract & Poster presentation]. Annual Scientific Meeting of the American Geriatrics Society, Chicago, IL, United States.

RESEARCH EXPERIENCES

Big-data and Infectious Disease Modeling Lab, UTHealth Houston <i>Research Assistant, Advisor: Dr. Kaiming Bi</i> • Research Topic: <i>Synthetic Data and Modeling Method in Health Policy and Systems Research</i> • Contributed to building a digital twin framework that uses synthetic data on patients, providers, and facilities, combined with machine learning–based simulations, to improve healthcare system performance and support data-driven Health Policy and System Research.	Houston, Texas 08/2024 - Current
Institute on Aging / Patient Priorities Care Lab, UTHealth Houston <i>Research Assistant, Advisor: Dr. Aanand Naik</i> • Research Topic: <i>Patient Priorities Care Framework and Aging in Place Project</i>	Houston, Texas 08/2024 - Current

- Conduct research focus on transforming decision-making and care delivery for aging patients by aligning healthcare with their values-based health priorities, utilizing technology, and developing culturally appropriate care models.

Washington University in St. Louis

Research Assistant, Advisor: Dr. Ruopeng An

St. Louis, Missouri

08/2023 – 03/2024

- Research Topic: *Use of Deep Neural Networks to Predict Obesity with Short Audio Recordings.*
- Data Processing: Engage in raw data wrangling, transformation, management, and processing for optimal usability.
- Modelling: Conducted multiple modeling efforts using the yolov8-cls model to train image classification models, achieving a 70 percent accuracy rate.
- Report: Analyze and articulate training outcomes in the journal report.
- Research Topic: *Evaluation of the Effectiveness of Machine-Generated Warning Labels on Sugar-Sweetened Beverages (SSB).*
- Role: Assessing the impact of warning labels on communicating the risks associated with the overconsumption of SSB.
- Responsibility: Conducting bibliographic research and developing the interventional study's experimental design, under the supervision of Dr. An and in collaboration with Dr. Yang.

PROFESSIONAL & PROJECT EXPERIENCE

Institute on Aging, UTHealth Houston

Graduate Research Assistant

Houston, Texas

08/2024 – Current

Lenovo

Product Manager – AIOps & Cloud

Beijing, China

01/2022 – 07/2022

- Product Manager of AIOps Products: Responsible for 'Cognitive Insight' and 'Datalike.'
- As Scrum Master: Led and organized the agile team; managed the backlog; and facilitated meetings including daily stand-ups, retrospectives, and story evaluations.
- As Product Manager: Conducted research on similar products; developed product roadmaps; gathered user requirements and translated them into product features.
- Conducted research on AIOps and cloud product industry trends and reports; provided insights and updates to Product Leaders and Executive Directors.

ShilinX

Product Manager – Pharmaceutical QMS Consulting

Beijing, China

09/2021 – 12/2021

- Product Manager for a Pharmaceutical Regulatory Compliance Consulting Website and Application, focusing on GMP (Good Manufacturing Practice) education for pharmaceutical factory managers.
- As Product Manager: Developed product roadmaps, conducted research, and designed product features; optimized existing features.
- As Project Manager: Researched and developed prototypes for a Pharmaceutical Manufacturing Regulatory Quality Management System (QMS) platform.

Acuity Corrosion Technologies – Market Consulting Project

Specialist Consultant

St. Louis, Missouri

08/2023 – 12/2023

- Provided market consulting and research services for a metal-corrosion-protection technology company.
- Conducted market research and qualitative analysis of the U.S. corrosion-protection sector to identify emerging market opportunities.
- Analyzed the client's business structure and technological barriers to highlight competitive advantages and proposed actionable, data-driven market strategies.

St. Louis City SC Sports Data Analytics Project

Data Analyst / Project Manager

St. Louis, Missouri

08/2023 – 12/2023

- Research & Project Topic: Applied quantitative and qualitative methods to uncover undervalued data and deliver strategic insights for St. Louis City SC, a Major League Soccer team.
- Data Processing: Developed a streamlined data processing pipeline for 4.1 million data entries, including collection, cleaning, wrangling, and storage, to prepare raw data for advanced analysis.
- Data Analysis & Modeling: Conduct statistical analysis and build a Deep Neural Network model to forecast the team's winning probabilities.

ACADEMIC SERVICES

Research Mentoring:

Stuti Parikh, MPH Student, UTHealth Houston: 2026 - present

Niam Jasani, Undergraduate Student, UT Austin: 2026 - present

Manuscript Peer Review:

BMC Medical Informatics and Decision Making

AWARDS & HONORS

Halloran Scholarship, 18th Annual Summer Institute in Statistics and Modeling in Infectious Diseases: 2026

UTHealth Houston Institute on Aging Scholarship: 2025 - 2026

UTHealth Houston School of Public Health Doctoral Fellowship: 2024 - 2025

PROFESSIONAL MEMBERSHIP

MIDAS (Models of Infectious Disease Agent Study): since 2026

AGS (Student Membership): since 2025

ISTAART (Student Membership): since 2025