POPULATION HEALTH INITIATIVE
UNIVERSITY of WASHINGTON

Tier 1 Project Evaluation Plan

1. **Innovative and Rigorous Metrics**
   - Deliver a completeness-aware benchmark reporting F1 on non-missing fields, hallucination and omission rates, and provenance-trace scores.
   - Target measurable improvements, including 10–15% relative error reduction and reduced hallucination rates compared with baselines.
2. **Usability, Transparency, and Open Access**
   - Build a prototype that provides source-aligned rationales and disagreement flags to enable selective human review.
   - Release benchmark code and a reproducible pipeline under a permissive license to ensure transparency and community adoption.
3. **Scalability and Future Validation**
   - Leverage outputs to expand to additional jurisdictions, extend the multi-agent LLM team (e.g., Legal Citations Checker, Provenance Auditor), and conduct prospective validation with policy partners.
   - Position the project to secure other funding (e.g., PHI Tier 2, Knight, Hewlett).

Project Timeline

- Month 1: Project launch – begin benchmarking LLMs and misinformation detection framework
- Month 2-3: Literature review and data validation
- Month 4-5: Algorithm development and testing, Mid-term report
- Month 6-8: Evaluation and metrics, draft final report and dissemination plan, project completion

Biographies

Dr. Yanfang Su is an Assistant Professor of Global Health and the Co-founding Director of Learning for Action in Policy Implementation and Health Systems (LAPIS) at University of Washington (UW). Dr. Su is a health economist with an ScD in Global Health and Population from Harvard University. Her research centers on policy implementation science (IS), with a focus on the application of AI in policy analysis. Dr. Su's work has been supported by grants and contracts from federal agencies, foundations, and the private sector. She has authored over 40 peer-reviewed manuscripts, more than 40 non-refereed works, and seven book chapters. As an emerging leader at the intersection of public policy and public health, Dr. Su spearheaded a special issue at Frontiers featuring approximately 80 authors, dedicated to leveraging policy implementation insights for global action. Dr. Su has consulted for the Bill & Melinda Gates Foundation, the World Bank, and several NGOs on primary health care system strengthening. She also held academic and policy roles at Tsinghua University and the Hong Kong Policy and Research Institute. Beyond academia, Dr. Su brings over a decade of experience in social entrepreneurship and public health practice, working to strengthen primary health care (PHC) and health policy implementation at global, national, and grassroots levels.

Dr. Shuai Huang is a Professor of Industrial & Systems Engineering at the University of Washington (UW). Shuai's research focuses on developing novel AI and machine learning models for system modeling and decision-making in healthcare and medicine. He received a B.S. in Statistics and a Ph.D. in Industrial Engineering. His major accomplishments include: (1) multi-modal data fusion for precision medicine; (2) AI for mHealth and wearable devices; (3) modeling of networked systems in healthcare and medicine. He has led multi-disciplinary projects funded by NIH, NSF, DARPA, AHRQ, Breakthrough T1D (formerly known as JDRF), Army Research Lab, Air Force Office of Scientific Research, Amazon, Meta, etc.