



Fuchiang (Rich) Tsui, Ph.D., is a faculty member holding the Endowed Chair in Biomedical Informatics and Entrepreneurial Science at the Children's Hospital of Philadelphia, a Senior Fellow at the University of Pennsylvania, an adjunct Associate Professor at the University of Pittsburgh, and the Director of Tsui Laboratory. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and a Silver Member of the American Medical Informatics Association (AMIA). He received his Ph.D. in Electrical Engineering, premed training, and postdoctoral training in biomedical informatics at the University of Pittsburgh. Before he joined CHOP in 2018, he was Associate Professor in the Department of Biomedical Informatics, University of Pittsburgh School of Medicine.

Dr. Tsui's research interest includes Clinical informatics, population informatics, machine learning, data science, natural language processing, signal processing, data warehouse, large real-time production systems, and mobile healthcare. He has published 100+ peer-reviewed papers and has been working in healthcare analytics and electronic health records (EHRs) for more than 20 years.

To translate academic research into clinical practice, Dr. Tsui has directed several projects for real-time patient risk prediction by integrating hospital EHR systems and predictive modeling, e.g., the Cardiac Intensive Care Warning Index (C-WIN), the Infant Mortality Prediction System with Intervention Management (IMPreSiv), and the System for Hospital Adaptive Readmission Prediction and Management (SHARP). He was one of funding members of the Real-time Outbreak and Disease Surveillance (RODS) system and the National Retail Data Monitor (NRDM) system at the University of Pittsburgh.

Dr. Tsui teaches and co-directs the course of the Introduction to Biomedical and Health Informatics at the Perelman School of Medicine, University of Pennsylvania. He has served as a dissertation advisor of several doctoral students from Biomedical Informatics, the Intelligent System Program, and Bioengineering. He also mentors junior faculty members and researchers at the Children's Hospital of Philadelphia.

Dr. Tsui's Laboratory (www.tsuilab.com) at the Children's Hospital of Philadelphia and the University of Pennsylvania has been hosting international visiting scholars from different countries to work on various biomedical informatics research projects. His laboratory welcome international research collaboration.

Additional links to Dr. Tsui's research:

Faculty page at Penn: <http://upibi.org/faculty/>

Faculty page at CHOP: <https://dbhi.chop.edu/index.php/people/40-people/902-fuchiang-rich-tsui-phd.html>