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Prior to joining IBM in 2003 she was with Bell Labs at Murray Hill, New Jersey. Dr. Hu has conducted and led extensive research in machine learning, data mining, statistical pattern recognition, and signal processing, with applications to healthcare analytics and medical informatics, business analytics, and multimedia content analysis. Her recent focus has been on leading research efforts to develop advanced computational methods for deriving data-driven insights from real world healthcare data to facilitate learning health systems.

Dr. Hu served as Chair of the Knowledge Discovery and Data Mining (KDDM) Working Group of the American Medical Informatics Association (AMIA) from 2014 to 2016, and on the Computational Science Advisory Board of Michael J. Fox Foundation from 2017 to 2018. She has published over 120 peer reviewed scientific papers and holds 32 patents. She has served as Associate Editor for the journals IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Image Processing, Pattern Recognition, and International Journal for Document Analysis and Recognition.

Dr. Hu currently serves on the Editorial Board of the journal JAMIA Open, Advisory Board of the Journal of Healthcare Informatics Research, the External Advisory Board of Vanderbilt University Department of Biomedical Informatics, the Industry Advisory Board of NJIT, and the Western Pennsylvania HIT Advisory Board. Dr. Hu is a fellow of IEEE, a fellow of the International Association of Pattern Recognition, and an overseas fellow of Royal Society of Medicine. She received the Asian American Engineer of the Year Award in 2013.