

Dr. Qian Lin HP Fellow & VP – HP Personal Systems Software

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Dr. Qian Lin is the Chief Technologist for Machine Learning and Vision Systems in HP Personal Systems Software. She is also an Adjunct Full Professor of Electrical and Computer Engineering, Purdue University. Dr. Lin leads the AI Technologies research and development, with applications in video experience for hybrid work, photo creative experience, and manufacturing quality improvement.

Dr. Lin led the research and development of HP Pixel Intelligence, an analytics engine for understanding visual information. Developed using the latest deep learning approach for training convolutional neural networks, HP Pixel Intelligence aims to solve HP customer business challenges in industry verticals. Dr. Lin collaborated broadly with technologists, marketing managers, and business leaders across HP businesses to bring the technologies to HP customers. Today, HP's Personal Computer customers enjoy better video experience through HP Presence desktop software, powered by HP Pixel Intelligence. HP's top accounts provide better print experience for their customers with the help of HP Pixel Intelligence.

During her 27+ years at HP, Dr. Lin contributed to a number of key technologies in HP products, as well as mentored and developed engineers and students in imaging and computer vision in HP and partner research organizations. Her first research project at HP was the development of halftoning technologies for HP printers. She invented the adaptive halftoning technology, which produced output with high image quality for HP's Enterprise and Professional LaserJet and Multifunction Printers. She also worked on digital camera imaging pipeline and co-invented new capture capabilities with panorama stitching and automatic redeste correction. HP's digital cameras were the first in industry with embedded computation to support these capabilities. Later, she contributed to the image analysis and composition for HP's Digital Publishing Solutions, as well as image and video analytics for HP's Enterprise Software.

Dr. Lin joined the Hewlett-Packard Company in 1992. She received her BS from Xi'an Jiaotong University in China, her MSEE from Purdue University, and her Ph.D. in Electrical Engineering from Stanford University. Dr. Lin is an inventor with 45 issued patents. She was awarded Fellowship by the Society of Imaging Science and Technology (IS&T) in 2012, and Outstanding Electrical Engineer by the School of Electrical and Computer Engineering of Purdue University in 2013.