BIO

Wan-Ping Lee, Ph.D.

Born, raised, and educated in Taiwan, Wan-Ping Lee is an Assistant Professor (Research) in Pathology and Laboratory Medicine at the Perelman School of Medicine, University of Pennsylvania. Simultaneously, she holds the position of Associate Director of IT at The National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site (NIAGADS) and serves as the Co-Chair of the Alzheimer's Disease Sequencing Project (ADSP) Structural Variant (SV) Working Group.

With a Ph.D. in Electrical Engineering, Wan-Ping is a seasoned Bioinformatics scientist boasting a strong foundation in algorithm and software development. Over a decade of dedicated experience in Bioinformatics software development has seen her create pre-eminent tools, including short-read sequence mappers and variant detectors. These tools are widely used in population re-sequencing projects and medical sequencing studies.

The research focus of Wan-Ping's lab extends to the exploration of human genomic variations, with a particular emphasis on SVs like deletions, insertions, tandem duplications, inversions, and translocations. From 2014 to 2020, she played an active role in the Human Genome Structural Variation Consortium, highlighting the utilization of long-read technology for decoding SVs. Since she joined Penn, her team contributes to ADSP SV Working Group. Wan-Ping's expertise uniquely positions her to lead her lab in unraveling the etiology of Alzheimer's Disease.

Beyond genomics, Wan-Ping Lee possesses extensive experience in the realm of cloud computing. Her initiation into the cloud domain occurred during her job as a Senior Lead Scientist at Seven Bridges Genomics, where she directed the R&D team. Her ongoing proficiency in cloud computing remains a significant asset at NIAGADS, where she leverages her expertise to propel the institute's research endeavors.