

**University of California, Irvine
Statistics Seminar**

AI-driven Smart Spatial Omics

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Spatial omics technologies have revolutionized biomedical research by providing detailed, spatially resolved molecular profiles that enhance our understanding of tissue structure and function at unprecedented levels. Histopathology is considered the clinical gold standard for disease diagnosis. However, the integration of histological information in spatial omics data analysis has been limited due to a lack of computational pathology expertise among computational biologists. In this talk, I will present several tools that we recently developed to leverage pathology image information, thereby enhancing spatial omics data analysis.