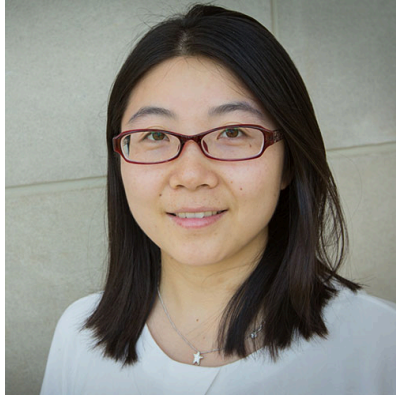


Department of Biostatistics and Medical Informatics Seminar



Jingwen Yan, PhD

Associate Professor of Bioinformatics, at Indiana University Indianapolis

Friday, March 15, 2024

12:00-1:00 pm

Biotech Center Auditorium *or* via Zoom Link

<https://uwmadison.zoom.us/j/95515534304?pwd=NnR5TnNmZXpEMWJBV2wvYTA1bjMvQT09>

Integrative -omics for improved understanding and risk stratification of Alzheimer's disease

Abstract: Integrative -omics is an emerging research field that aims to extract the knowledge from the broad multi-omic data landscape. While multiple domains included, such as brain imaging, genetics, transcriptomics and proteomics, it offers great promise to illuminate the causal pathway from genotype to phenotype and to provide optimal molecular phenotypes for early therapeutic intervention. My research has been focused on development and application of computational approaches 1) to explore the complementary information between -omics data and 2) to investigate how that could benefit the biomarker discovery and early detection of Alzheimer's disease (AD). In this talk, I will introduce some of our recent work on exploration of AD molecular mechanism and risk stratification with integrative -omics approaches.

Bio: Dr. Jingwen Yan is an Associate Professor of Bioinformatics in Luddy School of Informatics, Computing and Engineering at Indiana University Indianapolis. Her research is focused on developing computational and bioinformatics approaches for integrative analysis of high throughput multi-omic genetic data, multi-modal neuroimaging data and rich biological knowledge (e.g., pathways and networks), with applications to Alzheimer's disease and other neurodegenerative disorders. In particular, these approaches have been largely dedicated to the discovery of disease biomarkers with better interpretability and understanding of disease progression to facilitate the early diagnosis.



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