



BIOINFORMATICS SEMINAR

Qing Zeng

Director, Biomedical Informatics Center, Professor Clinical Research and Leadership

GEORGE WASHINGTON UNIVERSITY

Supporting patient centered care through big data analytics

As more clinical data becomes available through electronic medical records, insurance claims, large registries, etc., there is a need for new analytical methods to process the data and derive insights. More importantly, the analytics needs to serve patient care. This presentation will discuss several clinical use cases, where we applied advanced computation methods including natural language processing and deep learning to large, national clinical datasets in support of clinical decision making by physicians and patients.

BIOGRAPHY

With 20 years of experience in informatics, Dr. Zeng has special expertise in text mining, consumer health informatics, and semantic integration of data sources. She has published over 80 peer-reviewed articles, as well as served as the PI and Co-PI on a number of VA HSR&D, NIH and DOD funded research projects. Dr. Zeng's research vision is to leverage information for healthcare research and delivery. Her main research areas are NLP and consumer health informatics. Prior to coming to GW, Dr. Zeng was a Professor at the University of Utah and Associate Professor at Harvard Medical School, where she developed an NLP tool (HITEx) for two large consortium projects (i2b2 and SPIN). HITEx was the first open-source, comprehensive clinical NLP system in the nation. In addition to her work at GW, Dr. Zeng is currently the Associate Director of the Center for Health and Aging at the Washington DC VA Medical Center. At the VA, she has organized a VA-wide collaboration to develop interoperability standards for the broader clinical NLP community. The Open Access Collaborative (OAC) Consumer Health Vocabulary (CHV) produced by her team is the first and only consumer health vocabulary that has been incorporated into the Unified Medical Language System. She has also developed a number of novel informatics methods (e.g. automated illustration of instruction and social media analysis) to improve patient-centered care.



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