

Department of Epidemiology and Biostatistics Biostatistics Seminar

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12:00pm - 1:00pm – Wood Building Ground 73 (WG73)

Big Data, Cloud Computing and National Resources

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Abstract: Big data is transforming everything we do today, from business to health care, and from science to engineering. In this presentation Professor Zhang will highlight the defining attributes of big data and its paradigm-changing power. He will then talk about several specific *big data* research projects he has been leading/co-leading: the National Sleep Research Resource (NSRR: <http://sleepdata.org>), the Center for SUDEP Research (CSR: <http://csr.case.edu>), ontology-driven information management, and ontology quality assurance. NSRR and CSR are cross-institutional NIH-funded center projects using the latest data science methodology for large-scale integration of retrospective clinical trials and for multi-modal prospective electronic data capture.