Big Data and Public Policy
PUBP 8813 / ECON 8813

The School of Public Policy is offering a new cross-listed course with the School of Economics in Big Data and Public Policy for Spring 2018. This course will provide an introduction to data science tools and methodologies for social science applications. Students will learn to conduct experiments and identify causal mechanisms in large-scale social and administrative data. The course is targeted for Ph.D. or advanced M.S. students in Public Policy; M.S. students in Economics, and M.S. students in Cybersecurity. 3 credit hours. **T Th 1:30-2:45pm**

SUGGESTED PREREQUISITES

» **At least 1 course in elementary statistics and probability theory**

» **Some programming experience is recommended but not required**

HIGHLIGHTS

» **Learn Tools for Solving Social and Policy Problems Using Big Data**

» **Conduct Real-World Experiments Using Data Science and Methods of Causal Inference**

» **Applications in Economics, Energy Systems, Transportation, Cybersecurity, Information & Technology Management**

About the Professor

Dr. Omar Isaac Asensio is an Assistant Professor in the School of Public Policy with a focus on big data and public policy. He conducts field experiments and uses evidence from big data to make causal inferences about incentives and behavior in areas such as energy, transportation and urban sustainability. His research has been published in general interest journals such as Nature Energy and the Proceedings of the National Academy of Sciences (PNAS), as featured in NBC News, CBS Radio, Scientific American, the Washington Post, the Economic Times, and Yahoo! News.

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