



# Transportation Seminar Series

*Friday, May 8th, 2009  
4 - 5 p.m. in 240 Bechtel Engineering Center*

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## Revealed Preference of Airlines' Behavior under Air Traffic Management Initiatives

**Abstract:** The Federal Aviation Administration uses Traffic Management Initiatives (TMI's) to mitigate the consequences of aviation system capacity shortfalls, for example by delaying aircraft on the ground at their origin airports. In order to make more efficient use of National Air Space (NAS) resources, reduce delay costs, and increase the flexibility of NAS users to meet their operational needs, TMI's are implemented in a manner that affords airlines opportunities to make choices such as canceling flights and increasing delays on some flights while decreasing delays on others. However, there has been little study of airlines' resulting behavior. In this study, we will analyze choices made by airlines in response to TMI's and attempt to infer from these key features of airlines' preference structures. Two econometric models will be presented: the first model focuses on airlines' flight cancellation decisions, and the second model examines airline requests to simultaneously re-assign arrival slots and cancel flights.

**Bio:** Jing Xiong is a PhD Candidate in the Civil and Environmental Engineering, Transportation Engineering Program at the University of California, Berkeley. She completed her Bachelors in Civil Engineering at the Southeast University in China and her Masters in Civil Engineering at the University of Iowa. Her research focuses on transportation systems analysis and behavioral modeling, with a focus on aviation applications.

Please join us for a TRANSOC-sponsored cookie hour in the ITS library at 3:30 p.m.