



Executive Course  
**Activity-Based Modeling of Spatial and Temporal Patterns  
of Human Travel Behaviour**  
**Tongji University, Shanghai**      **July 9-10, 2016**

**Date:** July 9-10, 2016  
**Location:** Room 405, Zonghe Building, Tongji University, 1239 Siping Road, Shanghai 200092  
**Instructors:** Professor Chandra R. Bhat, The University of Texas at Austin  
Professor Konstadinos G. Goulias, The University of California at Santa Barbara  
Professor Ram M. Pendyala, Georgia Institute of Technology  
**Host:** Professor Xin Ye, Tongji University

### **Saturday, July 9, 2016**

- 1) 1:00 – 1:15 PM Welcome and Introduction (Ye/Bhat)
- 2) 1:15 – 2:00 PM Time, space, place, and social interactions in activity-travel behavior (Goulias)
- 3) 2:00 – 2:45 PM Fundamentals of activity-based transport modeling methods (Bhat)
- 4) 2:45 – 3:15 PM Break
- 5) 3:15 – 3:45 PM The SimAGENT model system – an overview (Goulias)
- 6) 3:45 – 5:00 PM Synthetic population generation – PopGen software (Pendyala)

Dinner – On Your Own

### **Sunday, July 10, 2016**

- 1) 8:45 – 9:15 AM CEMSELTS: a socio-economic model system (Pendyala)
- 2) 9:15 – 10:15 AM CEMDAP: the activity-based travel model (Bhat)
- 3) 10:15 – 10:45 AM Break
- 4) 10:45 – 11:15 AM Measures of opportunity-based spatio-temporal accessibility (Goulias)
- 5) 11:15 – 12:00 PM The Multiple Discrete Continuous Extreme Value (MDCEV) model (Bhat)
- 6) 12:00 – 1:00 PM Lunch provided
- 7) 1:00 – 1:30 PM Forecasting with the MDCEV model (Bhat)
- 8) 1:30 – 2:30 PM MDCEV application: a vehicle fleet composition model system (Pendyala)
- 9) 2:30 – 3:00 PM Break
- 10) 3:00 – 3:45 PM Data and analytics for activity-based travel modeling (Goulias)
- 11) 3:45 – 4:15 PM Advanced methods for simulating cross-nested discrete choice models (Ye)
- 12) 4:15 – 4:30 PM Wrap-up: future directions in activity-based transport modeling

Adjourn

