

Rajesh Paleti

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EDUCATION

Doctor of Philosophy in Civil Engineering (Transportation), University of Texas at Austin, TX, 2012
Master of Science in Civil Engineering (Transportation), University of Texas at Austin, TX, 2009
Bachelor of Technology in Civil Engineering, Indian Institute of Technology, Kharagpur, 2008

EMPLOYMENT HISTORY

Assistant Professor, Civil & Environmental Eng., Pennsylvania State University, 2018 – Present
Assistant Professor, Dep. of Civil & Environmental Eng., Old Dominion University, 2014 – 2018
Transportation Systems Modeler, Parsons Brinckerhoff, New York, NY, 2013–2014

RESEARCH SKILLS

Applied Econometrics

Discrete Choice Modeling; Multinomial Logit/Probit models and generalizations, Multiple-discrete continuous choice models; Ordered response models; Count data analysis; Panel and spatial data modeling; Alternate statistical inference methods: Maximum likelihood, Composite marginal likelihood, Maximum simulated likelihood

Consumer Behavior Analysis

Behavioral models: Utility maximization, regret minimization, elimination by aspects, prospect theory; Market segmentation; Value-of-Time estimation

Causal Inference Analysis

A/B testing; Factor analysis; Survey design and analysis; Integrated stated and revealed preference data analysis

Machine Learning

Supervised (Decision Trees, Support Vector Machines, K Nearest Neighbor) and Un-supervised (Principle Component Analysis, Clustering) models

MODELING TOOLS & SOFTWARE

Platform	Focus Area	Skill Level
Gauss	Applied Econometrics	Expert
Python	Exploratory Data Analysis and Machine Learning	Intermediate
R	Exploratory Data Analysis and Machine Learning	Intermediate
C++	Large Scale Model Deployment	Basics
SQL	Database Management	Basics

TEACHING AND MENTORING EXPERIENCE

Lecturing in Undergraduate and Graduate Courses

Multiple sections of courses with strong econometric modeling component including "Discrete Choice Theory and Modeling", "Transportation Planning"; and "Traffic Safety"

Dissertation and Thesis Advising

Ph.D. Committee Chair/Primary Advisor: 2 students; Ph.D. Committee Member: 5 students; MS Thesis Chair: 4 students

SELECT JOURNAL PUBLICATIONS

Google Scholar Profile: <https://scholar.google.com/citations?user=4KonhHgAAAAJ&hl=en>

- Total Publications: 45; 1,327 Citations; h-index: 21; i10-index: 32
1. Paleti, R. (2018). Generalized Multinomial Probit Model: Accommodating Constrained Random Parameters. *Transportation Research Part B: Methodological*, 118C, 248-262.
 2. Paleti, R., & Balan, L. (Supervised Student Author) (2017). Misclassification in Travel Surveys and Implications to Choice Modeling: Application to Household Auto Ownership Decisions. *Transportation*, Published Online. <http://doi.org/10.1007/s11116-017-9847-2>.
 3. Paleti, R. (2016). Generalized Extreme Value Models for Count Data: Application to Worker Telecommuting Frequency Choices. *Transportation Research Part B*, 83, 104-120.
 4. Bhat, C.R., Paleti, R., & Castro, M. (2015). A New Utility-Consistent Econometric Approach to Multivariate Count Data Modeling. *Journal of Applied Econometrics*, 30(5), 806-825.
 5. Paleti, R. (2015). Implicit Choice Set Generation in Discrete Choice Models: Application to Household Auto Ownership Decisions. *Transportation Research Part B*, 80, 132-149.
 6. Bhat, C.R., Paleti, R., & Singh, P. (2014). A Spatial Multivariate Count Model for Firm Location Decisions. *Journal of Regional Science*, 54(3), 462-502.
 7. Paleti, R., & Bhat, C.R. (2013). The Composite Marginal Likelihood (CML) Estimation of Panel Ordered-Response Models. *Journal of Choice Modelling*, 7, 24-43.
 8. Paleti, R., Bhat, C.R., Pendyala, R.M., & Goulias, K.G. (2013). The Modeling of Household Vehicle Type Choice Accommodating Spatial Dependence Effects. *Transportation Research Record: Journal of the Transportation Research Board*, 2343, 86-94.
 9. Paleti, R. et al. (2010). The Design of a Comprehensive Micro-Simulator of Household Vehicle Fleet Composition, Utilization, and Evolution. *Transportation Research Record: Journal of the Transportation Research Board*, 2254, 44-57.

SELECT EXTERNALLY FUNDED RESEARCH PROJECTS

1. Chen, D., Paleti, R. (Co-Principal Investigator), Sponsored Research, "Would You Consider a "Green" Vehicle? Anticipating Electric Vehicle Adoption Patterns and Emissions Impacts in Virginia with a Spatial Latent Choice Model" Mid-Atlantic Transportation Sustainability University Transportation Center (MATSUTC). Total awarded: \$150,000.00. (2017 - 2018).
2. Paleti, R. (Principal Investigator), Rakha, H., Sponsored Research, "Real-Time System State Prediction & Optimal Rebalancing Strategies for Public Bike Sharing Systems." MATSUTC. Total awarded: \$150,000.00. (2017 - 2018).

SELECT AWARDS AND HONORS

1. 2019 Best Paper Award (Co-author), International Conference on Transportation and Development, American Association of Civil Engineers, Alexandria, VA
2. 2016 Chan Wui & Yunyin Rising Star Award for Early Career Professionals, Transportation Research Board
3. 2013 Pikarsky Award for Outstanding Ph.D. Dissertation in Transportation Science & Technology
4. 2013 Pyke Johnson Award: Outstanding Paper in Transportation Systems Planning and Administration, Transportation Research Board, Washington DC