THEJA PUTTA

pvvktheja@gmail.com | (857) 600-0356
141 Centre St, #1, Boston, MA 02119

EDUCATION

Northeastern University, Boston, MA

Doctor of Philosophy in Civil Engineering Sep 2012 – Dec 2019
Concentration: Transportation (GPA: 3.91/4)
Dissertation: *Evaluating Bicycle Networks: Visualizing and Measuring Low-stress Connectivity and Accessibility.* (https://bit.ly/theja_dissertation)
Advisor: Dr. Peter Furth

Indian Institute of Technology Madras (IIT-M), Chennai, India

Bachelor of Technology in Civil Engineering Aug 2006 – May 2010
Final Project: *Short-Term Prediction of Traffic Conditions Using Support Vector Machines.*
Advisor: Dr. Lelitha Devi Vanajakshi

SOFTWARE & COMPUTER SKILLS

- VISSIM
- Synchro
- TransModeler
- AutoCAD
- ArcGIS
- QGIS
- SketchUp
- MS Office
- Python
- R
- Matlab
- Arena

EXPERIENCE

Northeastern University, Boston, MA

Post-Doctoral Researcher Mar 2020 – present
- Analyzed and mapped food deserts in Greater Boston to identify underserved communities.

Instructor/Teaching Assistant/Research Assistant Sep 2013 – Dec 2019
- Taught and assisted classes in construction, transportation, and structural engineering.
- Developed GIS tools used for bike network planning by DelDOT, Oakland, and Arlington (VA).
- Authored and presented technical research findings at over 10 conferences.

Dialogue of Civilizations Program Assistant Summers – 2016, 17, 18
- Assisted in organizing 'Sustainable Urban Transportation' summer program in Netherlands.
- Managed logistics and supported teaching for the study abroad program.

Jindal Steel & Power Limited (JSPL), Angul, India

Civil Site Engineer Jul 2010 – Dec 2010
- Scheduled and monitored progress in civil construction of a coal gasification plant.
- Negotiated change orders, performed QA/QC tasks to ensure the work meets specifications.

CORE SKILLS

- Traffic Signal Analysis
- Simulation Analysis
- GIS and Mapping
- Data Analysis
- Sustainable Safety
- Statistical Analysis
- Intersection and Roadway Design
- Transportation Demand Modeling
- Public Transportation
- Urban Policy and Planning
- Network Analysis and Optimization
- Technical Writing

PEER-REVIEWED PUBLICATIONS

Putta, T., Furth, P. "A Method to Identify and Visualize Barriers in a Low-Stress Bike Network," *Transportation Research Record*, Vol. 2673, no. 9, Sept 2019, pp. 452–460.

Furth, P., **Putta, T.**, Moser, P. "Measuring Low-Stress Connectivity in Terms of Bike-Accessible Jobs and Potential Bike-to-Work Trips: A Case Study Evaluating Alternative Bike Route Alignments in Northern Delaware," *Journal of Transport and Land Use*, Vol. 11, 2018, pp. 815-831.

Theja. P.V.V.K and L. Vanajakshi, "Short Term Prediction of Traffic Parameters Using Support Vector Machines Technique," *2010 3rd International Conference on Emerging Trends in Engineering and Technology*, Goa, November 19-21, 2010, pp. 70-75.

AFFILIATIONS

Young Professionals in Transportation, Boston Chapter, Member – (Jan 2020-present)

Institute of Transportation Engineers, Northeastern University Chapter – (2015-2019)

Association of Pedestrian & Bicycle Professionals, Member – (2019-present)

Transportation Research Board, Member – (2015-2018)

Boston Cyclists Union, Volunteer, Member – (2014-present)

Graduate Student Government, Northeastern University, Senator – (2014-2018)

Lodge Committee, Northeastern University Hus-skiers and Outing Club – (2015-present)