

Rich Lee

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Professional Experience

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION - PUBLIC TRANSPORTATION DIVISION

Data Analyst (Transportation Planning Specialist IV)

07/2017 – Present

Data Analyst (Transportation Planning Specialist III)

09/2016 – 07/2017

- » Lead data analysis for the Commute Trip Reduction (CTR) program. Develop Python scripts and tools to automate reporting and queries; improved processing time for our primary survey report from one day to seconds. Create compelling visualizations for communication with policymakers and stakeholders. Helping to draft the 2019-2023 CTR Data Strategic Plan.
- » Oversee demographic and transit accessibility analysis for the 2019 Statewide Human Services Transportation Plan. Kicked off an expansive statewide demand response transit data collection and mapping effort.
- » Create and manage all of the division's GIS datasets, including CTR, transit stops/routes, park and rides, Census demographics.
- » Develop and maintain Google GTFS feeds for rural transit providers.
- » Manage statewide park and ride data. Created park and ride database, Tableau utilization dashboard, semi-annual utilization map, and maintain webpage.
- » Developed R scripts to speed up processing of transit travel time measures for the 2017 Corridor Capacity Report.
- » Led annual National Transit Database reporting effort for rural transit providers.
- » Estimate the systemwide benefits of TDM projects and proposals.
- » Presented on poverty trends at the 2018 Washington State Public Transportation Conference.
- » Facilitator for the Practical Solutions Steering Committee.

TEXAS A&M TRANSPORTATION INSTITUTE

Research Assistant

01/2014 – 08/2016

- » Studied the link between transportation and health. Researched the physical health benefits of transit use, the motivators and deterrents of active transportation, and the role that equity and quality of life play in transportation planning.
- » Created interactive maps and visualizations (JavaScript and Python) of active travel survey data for the El Paso MPO.
- » Forecasted traffic volumes and developed predictive models of VMT and vehicle ownership.
- » Authored and presented research at conferences around the country.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ♦ TEXAS GENERAL LAND OFFICE ♦ TREEFOLKS

TEXAS PARKS AND WILDLIFE DEPARTMENT

GIS Intern (multiple semester-long internships)

2012 – 2013

- » Created geodatabases to manage and analyze environmental data; digitized and geocoded archived data.
- » Produced maps of environmental resources and modeled critical wildlife habitats.

Education

Master of Civil Engineering (Transportation), University of Washington 2016

- » PacTrans Fellowship

Master of Applied Geography (GIS), Texas State University 2013

- » McGraw-Hill Higher Education Excellence in Geography Graduate Award

Bachelor of Music (Theory & Composition), Wesleyan University 2004

Technical Skills

- » Programming: Python, JavaScript, C++

- » Data Science/Statistics: Python, R, SPSS, Stata

- » Visualization/Design: Tableau, Adobe Illustrator

- » Database: SQL Server, Access

- » Geospatial: ArcGIS, QGIS

Selected Publications

- » Lee, R. J., I. N. Sener, and S. N. Jones. 2016. [Understanding the role of equity in active transportation planning in the United States](#). *Transport Reviews* 37(2), 211-226.
- » Sener, I. N., R. J. Lee, and Z. Elgart. 2016. [Potential health implications and health cost reductions of transit-induced physical activity](#). *Journal of Transport and Health* 3(2), 133-140.
- » Lee, R. J. and I. N. Sener. 2016. [Transportation planning and quality of life: Where do they intersect?](#) *Transport Policy* 48, 146-155.
- » Lee, R. J., I.N. Sener, and J.A. Mullins III. 2016. [An evaluation of emerging data collection technologies for travel demand modeling: From research to practice](#). *Transportation Letters: The International Journal of Transportation Research* 8(4).
- » Lee, R. J., I. N. Sener, P. L. Mokhtarian, and S. L. Handy. 2017. [Relationships between the online and in-store shopping frequency of Davis, California residents](#). *Transportation Research Part A: Policy and Practice* 100, 40-52.
- » Lee, R. J. and I. N. Sener. 2017. [The effect of light rail transit on land use development in a city without zoning](#). *Journal of Transport and Land Use*, 11(1), 1-16.
- » Sener, I. N. and R. J. Lee. 2017. [Active travel behavior in a border region of Texas and New Mexico: Motivators, deterrents and characteristics](#). *Journal of Physical Activity and Health* 14(8), 636-645.
- » Sener, I. N., R. J. Lee, and R. Sidharthan. 2018. [An examination of children's school travel: A focus on active travel and parental effects](#). *Transportation Research Part A: Policy and Practice* (in press).