

Key Qualifications

Kelly is an associate research scientist in the Transit Mobility Program at TTI. Prior to joining the Transit Mobility Program team in February 2019, she worked as a consulting engineer and planner for Kittelson & Associates, Inc., in Oregon and Florida. In her 20 years at Kittelson, Kelly managed and conducted a variety of transit planning and operations studies, multimodal transportation planning studies, transportation research projects, guidebook development efforts, on-call contracts and tasks serving diverse public sector clients, traffic impact and trip generation studies, conceptual and final design projects, and public involvement efforts. Kelly's transit experience spans the following:

- Transit planning and operations studies for a range of transit agencies
- Research and guidebook development
- Conceptual design of transit infrastructure
- On-call service provision

Since joining TTI, Kelly has worked on projects that include an intercity bus service assessment, school district transportation audits, transit plans for small urban/rural areas, and evaluations of local transit funding sources.

Education

M.S., Civil Engineering, Texas A&M University, 2002

B.S., Civil Engineering, Rice University, 1997

Licenses and Certifications

Professional Engineer in Texas (#130190), Florida (#60574), and Oregon (#71838)

Professional Affiliations

Transportation Research Board

- Intermodal Transfer Facilities Committee (2004-2015)
- Major Activity Center Circulation Systems Committee (2004-2012)
- Data Privacy, Security, and Protection Policy Task Force (2017-current)

Institute of Transportation Engineers (ITE)

Women's Transportation Seminar (WTS)

Relevant Projects and Experience

Transit Studies. Conduct and management of approximately 30 transit studies around the US, including corridor-level feasibility studies, alternatives analyses, operational analyses (e.g., capacity analyses and travel time and delay studies), and preliminary engineering studies; regional long-range and mid-range transit plans; short-term transit needs assessments; conceptual design of transit stops/stations, bus pullouts, and transit maintenance facilities; sub-area and campus transit plans; and applied research tasks.

Research. Conduct of research for multiple national- and state-level transportation research projects. National projects include all three editions of the *Transit Capacity & Quality of Service Manual*, TCRP Report 118 (bus rapid transit), TCRP Report 88 (transit performance measurement), and TCRP Report 183 (traffic engineering for transit). State projects include developing rural freeway and transit performance measures for statewide reporting and evaluating best practices for transit performance measurement.

YEARS OF
EXPERIENCE **20**



Guidebook Development. Preparation and management of transportation design- and operations-focused guidebooks for Florida and Oregon DOT. These include typical sections and guidance for the development of exclusive transit running ways in Florida, planning and design guidance and an agency review process for the implementation of lane elimination (road diet) projects on state highways, and guidance for preparing transit development plans.

Transportation Plans and Master Plans. Conduct and management of long-range transportation plans, sub-area plans, and institutional master plans, including managing the development of a multimodal sub-area plan for the City of Orlando portion of International Drive in Florida and managing the development of a citywide multimodal connectivity program for the City of Fort Lauderdale in Florida.

Transportation Design. Preparation and management of approximately 30 transportation design projects, including typical sections for transit running ways, bus pullout designs, traffic signal designs, intersection and corridor lighting designs, roundabout conceptual designs, maintenance of traffic plans, traffic calming designs, parking lot lighting evaluation, and intersection safety assessments.

Selected Publications

Kittelson & Associates, Inc., et al. *Transit Development Plan Guidebook*. Oregon Department of Transportation, Salem, OR, 2018.

Ryus, P. K. Laustsen, K. Blume, S. Beaird, and S. Langdon. "A Guidebook on Transit-Supportive Roadway Strategies." *TCRP Report 183*. National Academy Press, Washington, D.C., 2016.

Kittelson & Associates, Inc. *Statewide Lane Elimination Guidance*. Florida Department of Transportation, Tallahassee, FL, 2014.

Kittelson & Associates, Inc. *Typical Sections for Exclusive Transit Running Ways*. Florida Department of Transportation, Freight, Logistics and Passenger Operations Office and Public Transit Office, Tallahassee, FL, June 2013.

Kittelson & Associates, Inc., et al. "Transit Capacity and Quality of Service Manual, 3rd Edition." *TCRP Report 165*. National Academy Press, Washington, D.C., 2013.

Blume, K. "Past Presidents' Award for Merit in Transportation: Bus Rapid Transit Land Development Guidelines." *ITE Journal*, ITE, Washington, D.C., November 2008.

Danaher, A., H. Levinson, S. Zimmerman, and K. Blume. "Bus Rapid Transit Practitioner's Guide." *TCRP Report 118*. National Academy Press, Washington, D.C., 2007.

Kittelson & Associates, Inc., et al. "Transit Capacity and Quality of Service Manual, 2nd Edition" *TCRP Report 100*. National Academy Press, Washington, D.C., 2003.

Ryus, P., M. Connor, S. Corbett, A. Rodenstein, L. Wargelin, L. Ferreira, Y. Nakanishi, and Kelly Blume. "A Guidebook for Developing a Transit Performance-Measurement System." *TCRP Report 88*. National Academy Press, Washington, D.C., 2003.

Blume, K. *Developing an Integrated Transit Schedule with Improved Passenger Level of Service Measures*. Master's Thesis. Texas A&M University. College Station, TX, May 2002.

Work History

Dates	Position	Company
2019-current	Associate Research Scientist	Texas A&M Transportation Institute
1999-2019	Associate Engineer, Senior Engineer, Engineer, Engineering Associate, Analyst	Kittelson & Associates, Inc.
1997-1998	Graduate Research Assistant	Texas A&M University

1996-1997	Undergraduate Student Worker	Texas A&M Transportation Institute
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