BENJAMIN J. TOMHAVE

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EDUCATION

University of Minnesota, Minneapolis, MN *September 2018 - December 2020*
Master of Urban and Regional Planning *Degree GPA: 3.93*

University of Minnesota, Minneapolis, MN *September 2018 - December 2019*
Master of Science in Civil Engineering (Transportation) *Degree GPA: 3.91*

Lawrence University, Appleton, WI *September 2014 - June 2018*
Bachelor of Arts, Physics Degree GPA: 3.85

SKILLS & STRENGTHS

Quantitative Modeling	Python, R Studio, SQL
Transportation Data Analysis	APC, AFC, AVL, GTFS
Qualitative Analysis	Survey Design, Stakeholder Analysis
Software	Tableau, ArcGIS, Remix (Streets & Transit), Adobe InDesign, Microsoft Office Suite
Time Management	Ability to multi-task and work ahead
Interpersonal Skills	Effectively communicate and present (verbal & written)

PUBLISHED PAPERS

Impact of Arterial BRT-Lite Green Dwell Time on General Traffic and Intersection Capacity
ASCE Journal of Transportation Engineering, Part A: Systems
Operational analysis of the A Line Bus Rapid Transit to address questions regarding travel time performance and the impact the line has on traffic conditions for general-use vehicles in the corridor.

TRANSPORTATION RESEARCH EXPERIENCE

Effective Community Engagement for Implementing Transit Advantages 2020

· Through peer research, spatial analyses, and interviews and surveys with transit riders as well as community members and businesses, this research recommended engagement strategies and techniques to more effectively engage both stakeholders who experience diffuse benefits from transit advantages as well as those who experience acute negative impacts.

Hennepin County Human Services Transportation Assessment & Planning 2019

· Established a baseline of transportation providers and existing transportation service areas within Hennepin County to identify unmet transportation needs and service gaps. Analyzed provider data including ride volumes, routes, geographic coverage, and service ability.

Modeling Transit User's Route Choice Behavior in the Twin Cities 2019
Accepted For Conference Presentation: TRB (Jan 2020), ICTD (May 2020)

· Created an algorithm to determine how transit users travel between their origin and destination locations and what demographic and trip-attribute information most heavily influences their choice of transit paths/routes.

Land Use Proposal-–Shared Mobility Hubs 2019

· Graphically designed and communicated land use planning proposals for a shared mobility hub at the corner of Penn & Lowry Avenues in North Minneapolis.

Assessing Transit Access to Ramsey County Service Facilities 2018

· Mapped and analyzed midday transit accessibility to key Ramsey County service facilities to inform potential facility relocation in order to best serve transit-dependent populations.

PAST EMPLOYMENT

Bus Rapid Transit Planning Intern *June 2020 - Current*
Metropolitan Council (Metro Transit), Minneapolis - St. Paul, MN
Teaching Assistant: Urban Spatial & Social Dynamics *January 2020 - May 2020*
University of Minnesota, Minneapolis, MN
Graduate Research Assistant: Transportation Engineering *June 2018 - December 2019*
University of Minnesota, Minneapolis, MN
GIS Student Intern *September 2018 - December 2018*
Ramsey County & Center For Urban and Regional Affairs, Minneapolis, MN
Physics Content Tutor *Fall 2016 - Spring 2018*
Lawrence University, Appleton, WI
Technical Support Intern *Summer 2017*
Werner Electric Supply, Appleton, WI
Government Tutor for English as a Second Language Students *Fall 2017 - Winter 2018*
Lawrence University, Appleton, WI

ACADEMIC HONORS

Winner: 2020 Matthew J. Huber Award for Excellence in Transportation Research and Education

Member: Phi Beta Kappa Honors Society

Member: Sigma Pi Sigma Physics Honors Society

Finalist: Edwin N. and Ruth Z. West Leadership Scholarship

TRANSPORTATION-RELATED COURSEWORK

Transportation Network Analysis	*Fall 2018*
Engineering Optimization	*Fall 2018*
Transit Planning & Management	*Fall 2018*
GIS Programming	*Fall 2018*
Statistical Analysis	*Spring 2019*
Urban Spatial & Social Dynamics	*Spring 2019*
Transportation Land Use & Design	*Spring 2019*
Transportation Seminar	*Spring 2019*
Planning for China's Urban Billion	*Summer 2019*
Land Use Planning	*Fall 2019*
Civic Participation in Public Affairs	*Spring 2020*
Capstone: Transportation Planning & Policy	*Spring 2020*