Freyja A. Brandel-Tanis

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WORK EXPERIENCE

Transportation Planner/Engineer May 2020 – December 2020 (Intern), June 2023 – Present
Modern Mobility Partners, *Atlanta, GA*

- Member of AI Task Force; determine company best practices in the ever-changing landscape of Generative AI
- Create technical reports and presentations for client projects and work closely with clients and subcontractors
- Lead tasks and analyze data for projects and proposals, including for transit planning and ridership forecasting
- Determine best practices to improve in-house analyses and cowrote a white paper on anti-displacement strategies
- Design and build analysis applications for in-house use and client projects using Excel, ArcGIS, R, and Shiny

Fulbright Grantee/Visiting Researcher at NTNU, *Trondheim, Norway* August 2022 – June 2023
- Researched digital twins in sustainable transportation planning and decision making through systematic review

Graduate Research Assistant (GRA) at Georgia Institute of Technology, *Atlanta, GA* August 2019 – May 2022
Dr. Clio Andris, *Friendly Cities Lab*

- Updated and expanded the COVID-19 Event Risk Assessment Planning Tool in a multi-university team

Dr. Jennifer Singh

- Designed and programed an interactive map of autism services in Georgia using R, Shiny, Leaflet, and SQL
- Cleaned and aggregated medical service, transportation, and demographic data from public and independent sources

Dr. Catherine Ross, *Center for Quality Growth and Regional Development*

- Prepared data from public sources and partner organizations using R and Excel for transportation projects
- Composed and presented literature reviews and reports for proposals and current research

Community Development Intern May 2021 – August 2021
City of Douglasville, *Douglasville, GA*

- Planned next steps in the ARC's Green Communities program through improved inter-department communication
- Reviewed building and landscaping plans and traffic studies for new developments
- Optimized in-house data accessibility using ArcGIS Online, R, and Shiny

EDUCATION

Master of City and Regional Planning August 2022
Master of Science in Civil Engineering
Georgia Institute of Technology, *Atlanta, GA*
Thesis on MARTA ridership changes following 2017 I-85 bridge collapse

Bachelor of Arts May 2018
Saint Olaf College, *Northfield, MN*
Major in Mathematics, Concentration in Nordic Studies

Volunteering and Service

Student Representative for APA LGBTQ and Planning Division January 2021 – December 2022
President of the Student Planning Association (SPA), *Georgia Tech* May 2020 – May 2021
- Won APA's 2021 Outstanding Planning Student Organization Award
- Worked closely with department leadership and students to improve the program and promote student needs

AmeriCorps Construction Volunteer Facilitator September 2018 – August 2019
Twin Cities Habitat for Humanity, *St. Paul, MN*
- Adapted my instructions and supervision to meet the needs of the volunteers ranging from teenagers to senior citizens

TOOLS

Software: R (Tidyverse, Shiny, SF), ArcGIS Pro, Python, ArcPy, LaTeX, HTML, Sketchup, SQL
Skills: Project Management, Writing, Interpersonal Communication, Group Facilitation, Survey Design and Analysis

SELECTED PUBLICATIONS

Nag, D., Brandel-Tanis, F., Pramestri, Z.A. et al. Exploring digital twins for transport planning: a review. Eur. Transp. Res. Rev. 17, 15 (2025). https://doi.org/10.1186/s12544-025-00713-0

Todd, K., Brandel-Tanis, F., Arias, D., & Edison Watkins, K. (2022). Deadhead Minimization with a Flexible Facility Locator Tool. Transportation Research Record, 2676(2), 504–515. https://doi.org/10.1177/03611981211044455