

Freyja A. Brandel-Tanis

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WORK EXPERIENCE

Fulbright Grantee/Visiting Researcher at NTNU, *Trondheim, Norway* August 2022 – Present

- Researching the role of digital twin models in sustainable transportation planning and decision making

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 programmed [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

Transportation Planning Intern May 2020 – December 2020

Modern Mobility Partners, *Atlanta, GA*

- Analyzed data and performed quality assurance in ArcMap, Excel, and R for current projects and proposals
- Determined best practices to improve in-house analyses and [cowrote a white paper on anti-displacement strategies](#)
- Recommended R and Shiny to supervisors and built analysis applications for in-house use and client projects

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 2022 – Present

President of the Student Planning Association (SPA), Georgia Tech

May 2020 – May 2021

- Won APA's 2021 Outstanding Planning Student Organization Award
- Planned events and ensured initiatives aligned with SPA's mission statement and commitment to racial equity
- 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, Adobe Creative Cloud, LaTeX, HTML, Sketchup, SQL

Skills: Project Management, Writing, Interpersonal Communication, Group Facilitation, Survey Design and Analysis

PUBLICATIONS AND PROJECTS

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>

Covington Corridors Studio, *Georgia Tech master's studio directed by Aaron Fortner in Covington, Georgia*

Led road diet project component, worked with housing authority and economic development director

My project portfolio is available [on my website](#).