

Freyja A. Brandel-Tanis

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EDUCATION

Master of City and Regional Planning

Expected graduation May 2022

Master of Science in Civil Engineering

Georgia Institute of Technology, *Atlanta, GA*

Specializing in Transportation Planning and Transportation Systems Engineering

Bachelor of Arts

May 2018

Saint Olaf College, *Northfield, MN*

Major in Mathematics, Concentration in Nordic Studies

Cum Laude; Dean's List Fall 2015, Spring 2016, and Spring 2018

WORK EXPERIENCE

Graduate Research Assistant

August 2021 – Present

Dr. Clio Andris at Georgia Tech's Friendly Cities Lab, *Atlanta, GA*

- Updating and improving the [COVID-19 Event Risk Assessment Planning Tool](#) in a multi-university team

Community Development Intern

May 2021 – August 2021

City of Douglasville, *Douglasville, GA*

- Collaborated with city departments to improve inter-department sustainability communication
- Planned for the City's next steps in ARC's Green Communities program
- Reviewed building and landscaping plans and traffic studies for new developments
- Optimized in-house data accessibility using ArcGIS Online, R, and Shiny

Graduate Research Assistant (GRA)

January 2021 – May 2021

Dr. Jennifer Singh at Georgia Tech, *Atlanta, GA*

- 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

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

Graduate Research Assistant (GRA)

August 2019 – April 2020

Dr. Catherine Ross at Georgia Tech's Center for Quality Growth and Regional Development, *Atlanta, GA*

- 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

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

CAMPUS INVOLVEMENT

Student Planning Association (SPA) President, *Georgia Tech*

May 2020 – May 2021

- **President** of the APA's 2021 Outstanding Planning Student Organization Award-winning board
- 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

TOOLS

Software: R (Tidyverse, Shiny, SF), ArcGIS, 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., F. Brandel-Tanis, D. Arias, and K. Watkins. Deadhead Minimization with a Flexible Facility Locator Tool.

Transportation Research Record, 2021. *Accepted and awaiting publication*

My project portfolio including PDFs and additional details is available [on my website](#).