

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 (GRA) August 2021 – Present

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

- Updating and expanding 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*

- 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

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

Todd, Kara, Freyja Brandel-Tanis, Daniel Arias, and Kari Edison Watkins. "Deadhead Minimization with a Flexible Facility Locator Tool." *Transportation Research Record*, (September 2021). <https://doi.org/10.1177/03611981211044455>.

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