Nathan Tesfayi

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# EDUCATION

**University of Georgia,** *M.S. Geography*Athens, GA

**University of Georgia**, *B.S. Environmental Resource Science/A.B. Spanish,* August 2024Athens, GA

* *Minors:* *Geography/GIS*
* *Cumulative GPA*: 3.80/4.00 | *Honors: Dean’s List*

# PROFESSIONAL EXPERIENCE

**NASA Student Airborne Research Program,** *Intern,* Neport News, VA June 2023 – July 2023

* Assisted in the operation of instruments onboard an aircraft to sample atmospheric gases, and to image land and water surfaces in multiple spectral bands
* Took field measurements of reflectance, chlorophyll content, wind speed, and Secchi depth
* Utilized Python and ArcGIS Pro to analyze historical salinity data and visualize results
* Created a multiple regression model to predict changes in salinity based on future sea level rise
* Participated in taking measurements at field sites and presented formal research results and conclusions

**NA****SA DEVELOP,** *Remote Sensing Analyst,* Athens, GA September 2022 - March 2024

* Compiled data from several satellites, including Landsat 8 OLI, Landsat 7 ETM+, Sentinel-2 MSI, Sentinel-1 C-SAR, and PlanetScope
* Created maps of structural damage using high-resolution satellite imagery
* Retrieved and processed American Community Survey data in order to create socioeconomic overlays on ArcGIS Pro
* Used Excel functions as well as Python’s pandas library to filter csv files containing data on 200,000+ properties throughout 15 counties of South Georgia
* Conducted meetings with project partners in Spanish, facilitating international collaboration
* Manipulated spatial data using the sf (simple features) and tmap (thematic maps) packages in R, enabling advanced geospatial analysis and map creation

**Principal Document Translator**, UGA Marine Extension and Georgia Sea Grant,

Athens, GA January 2022 – August 2022

* Worked with the EcoScapes Sustainable Land Use program to make documents on sustainable gardening accessible to the Latino community
* Performed English to Spanish translation work, including written texts and audio files
* Consulted with Spanish professors to ensure accurate translation
* Studied the ever-changing landscape of the Spanish language to allow for an up-to-date translation

**Warnell School of Forestry and Natural Resources,** *Undergraduate Research Assistant,* Athens, GA June 2021 – February 2022

* Write short scripts and outlines for quick introduction to residents
* Interviewed residents and collected qualitative and quantitative data on their experiences
* Collected a target of 403 surveys, spoke with more than 2,000 residents
* Interview residents and collect data on scales of political, social, and economic empowerment
* Presented the research at regional and university conferences

# SKILLS AND INTERESTS

**Language:** Fluent Spanish(C1 Proficiency), Native Amharic Speaker

**Skills:** Python, R, ArcGIS Pro, Google Earth Engine, Microsoft Excel

# VOLUNTEER EXPERIENCE

**Community Assistance and Resource Effort,** *Student Manager,* Snellville, GA August 2019 – May 2020

* Worked in a school-based food pantry/professional dress loan closet
* Organized food based on type, (canned, boxed, perishable etc.)
* Folded, packed, and hung professional attire for student access and use
* Distributed food to students in need, via food drives and individually
* Oversaw the training and work of new aides

**Volunteer,** *Athens Petsmart,* Athens, GA August 2020 – May 2022

* Aided in the cleaning and sanitizing of cat enclosures
* Cleaned and changed litter boxes
* Refilled food and water bowls
* Entertained and played with cats

**Hispanic Student Association,** *Volunteer,* Athens, GA March 2021 - Present

* Provided translation during parent-teacher conferences, helping to complete tax forms, and teaching English to Spanish speakers
* Gave tours of UGA campus to Latino families, educating them on classes, student housing, and other factors

# HONORS AND AWARDS

**Southeastern Environment and Recreation Conference,** *‘Best Undergraduate Poster’ Prize Winner, Asheville, NC* March 2022

**Georgia State Seal of Bilteracy,** *Snellville, GA*  May 2020

**Public Service Outreach Scholar,** *Athens, GA* August 2021