

# Wila Braga (They/Them)

wmbraga7@gmail.com | (229) 712-1599 | Montpelier, VT

[www.wilabraga.com](http://www.wilabraga.com) | [www.linkedin.com/in/williambraga](https://www.linkedin.com/in/williambraga) | [www.github.com/bragalotwill](https://www.github.com/bragalotwill)

## WORK EXPERIENCE

### Centuria, Inc.

Remote

#### Application Programmer II

Nov, 2023 - Present

- Developer on multiple front and back-end weather systems of the National Data Buoy Center (NWS/NOAA)
- Rewrote MATLAB projects into native Java for AWS cloud migration, saving hundreds a year in licensing fees

#### Application Programmer I

Nov, 2022 - Nov, 2023

- Coordinated with SOFAR Ocean - a partner organization that sails out drifting buoys - to ingest and process their realtime data in WMO code standard, adding hundreds of new datapoints to the network
- Peer-reviewed the full website redesign, correcting dozens of PHP and JS bugs that would have caused crashes
- Wrote a technical document laying out developer best-practices for sanitizing user input

### College of Computing, Georgia Tech

Atlanta, GA; Barcelona, ES

#### Teaching Assistant

Aug 2019 - Aug, 2022

- TA'd for five semesters, teaching Natural Language Processing, Intro to Databases, and Discrete Mathematics
- Served my last semester as a study abroad teaching and program assistant in Barcelona, Spain after graduating

### CHAI Lab, Georgia Tech Research Institute

Remote

#### Graduate Research Assistant

Aug, 2021 - Dec, 2021

- GRA for CHAI - a lab at GTRI that conducts natural language processing tasks for CDC healthcare projects
- Webscraped and parsed hundreds of companies' return-to-work policies with BeautifulSoup and spaCy
- Tracked Covid-19 infections through thousands of doctors' notes using Python, aiding the CDC's health response

### Assurant, Inc

Remote

#### Data Science Intern

May, 2021 - Aug, 2021

- Lead a research initiative to reduce client round-trip times by caching machine learning model decisions, achieving an over 50% speed reduction in client SLA time
- Presented methodology, data visualizations, and statistic conclusions to technical and non-technical VPs
- Documented IBM Fairness 360's efficacy in reducing model biases, motivating a future bias-reduction project

## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

#### MS, Computer Science

Dec, 2021

- GPA: 3.8

#### BS, Computer Science

Dec, 2020

- GPA: 3.9

## PROJECTS

**Culinary Recipe Generation:** Compared quality of recipes generated with a GPT transformer versus custom Keras RNNs

**Video Stabilizer:** Smoothed video motion by translating a novel Linear Program equation into a Python application

**Gait Evolution:** Simulated and recorded the types of locomotion a body evolves through genetic algorithms

## SKILLS

**Programming:** Python (Pytorch, PySpark, SK-Learn, TensorFlow, NLTK, Numpy, Pandas), Java, SQL, Javascript (Node, D3)

**Technical:** Linux, Jupyter, Databricks, Tableau, Docker, LaTeX, MySQL, MongoDB, REST, AWS S3, CUDA, RL, CV

**World Languages:** English (Native), Portuguese (Native/Spoken), Spanish (Advanced)

**Hobbies/Volunteer:** Reading (SciFi, History), Watch Repair, Homebrewing, Group Facilitator, Volunteer Webmaster