

Alyssa Danielle Jones

alyssadaniijones@gmail.com
210-606-8997

alyssayelle.github.io
github: alyssayelle

EDUCATION

The University of Texas at Austin, Austin, Texas
Bachelor of Science, Mathematics, 2018

General Assembly Developer Academy, New York, New York
Software Engineering Immersive, 2019

SKILLS AND RELEVANT COURSEWORK

Technical skills: Python, Django, Java, Spring Boot, Javascript, PostgreSQL, Big-Query, HTML, CSS, React, R, Git/Github, \LaTeX

Coursework: Software Design, Databases, Elements of Computer Science, Discrete Math, Mathematical Statistics, Bayesian Statistics, Stochastic Processes, Applied Statistics, Probability, Generalized Linear Models.

EXPERIENCE

Recurse Member Recurse Center
Brooklyn, NY
Spring 2020

- Participated in community-driven educational programming retreat.
- Built web scraping, relational database, and React web apps.

Lab Tech and Data Analyst Institute for Geophysics
Austin, TX
2016 - 2018

- Researched and implemented machine learning algorithm for automated subglacial lake detection.
- Processed and cleaned ice-sounding radar data.
- Identified regions of potential hydrological activity using GIS software.

Undergraduate Data Analyst Institute for Geophysics
Austin, TX
2010 - 2016

- Tracked ice layers and measured thickness of the Antarctic ice sheet for NASA and NSF funded projects.
- Trained visiting research scientists and incoming students to use geophysical mapping software.

Research Assistant Laboratory for the Study of Anxiety Disorders
Austin, TX
2010 - 2012

- Oversaw health and wellness checks of laboratory animals.
- Collected skin conductivity and heart rate data from patients undergoing exposure therapy for spider and snake phobias.

PUBLICATIONS AND TALKS

Jones, A., Tansey, W., Greenbaum, J., Scott, J., Blankenship, D. *Subglacial lake detection via a discrete autoregressive change point analysis*. 2017 MAA MathFest, Chicago, Illinois.

Jones, A., Tansey, W., Greenbaum, J., Scott, J., Blankenship, D. *Subglacial lake detection via a discrete autoregressive change point analysis*. 2017 ASA Joint Statistical Meetings, Baltimore, Maryland.

Jones, A. *Approximating the genus of a graph*. 2015 UT Austin Department of Mathematics Directed Reading Program, Austin, Texas.

Young, D., Powell, E., Richter, T., Greenbaum, J., Gutowski, G., Greene, C., Ng, G., Kempf, S., Quartini, E., **Jones, A.**, Rosales, A., Blankenship, D. *Deep troughs dissect the Marie Byrd Land subglacial highland: Initial results of the GIMBLE survey*. 2013 WAIS Workshop, Sterling, Virginia.

**AWARDS
AND
FELLOWSHIPS** **American Express Developer Academy Fellowship**
UT Austin Intellectual Entrepreneurship Pre-Grad Fellowship
UT Austin Orchestra Principal French Horn

PROJECTS **Automated Ice Sheet Boundary Detection in Radar Images**
github.com/AlyssaYelle/auto-picking
Machine learning, Python, Scikit-learn, Numpy, Scipy

A Tutorial on Random Processes
github.com/AlyssaYelle/StochasticProcesses
Statistics, Python, R, Numpy, Matplotlib

Love Letters to Dogs
alyssayelle.github.io/love-letters-to-dogs
Javascript, HTML, CSS, Web APIs, Local storage

Rain on Me
afternoon-cliffs-23085.herokuapp.com
Javascript, React, HTML, CSS, Web APIs, Heroku

Quad Squad
alyssayelle.github.io/quad-squad-site
Web design, CSS, HTML

More projects available on my Github page: github.com/AlyssaYelle