

Livia Nason

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TECHNICAL SKILLS

- **Languages:** SQL, Python, R, HTML, SAS
- **Applications:** SQL Server 2019, SSMS, ArcGIS Pro/Online, Excel, Word, Power BI, R Studio, Shiny, SVN
- **Skills:** Scripting, algorithms, QA, QC, version control, data cleansing, visualization, data mining, modeling, reporting, ETL, statistics, documentation, geoprocessing, geospatial analysis, machine learning
- **Interests:** Music, art, climate change, sustainability, astronomy, space, nature, gardening, hiking, dogs

PROFESSIONAL EXPERIENCE

IT Applications Developer January 2020 – Present

Sedgwick Claims Management Services, Memphis, TN

- Develop **SQL** scripts for extract/transform/loading of client data into relational database (**ETL**)
- Executed data conversion processes for 6 new clients, including data cleansing, mapping, and migration
- Design, develop, and automate complex audit reports and save to a collaborative version control system
- QA new ad hoc analytical dashboard and visualization software for release to customers
- Consult with customers to complete requests for client data import or updates

Associate Product Owner June 2019 – November 2019

St. Jude Children's Research Hospital, Memphis, TN

- Project lead of **Agile** software development team building the St. Jude Cloud Genomics Platform
- Streamlined new user application process leading to a 50% increase in user account creations
- Collaborated with stakeholders and marketing strategists to define product development requirements

GIS Data Analyst June 2017 – May 2019

Florida Geological Survey, Florida DEP, Tallahassee, FL

- Collected, cleaned, and analyzed data to create visualizations and analytical dashboards using **R** and **Shiny**
- Implemented custom geoprocessing algorithms to analyze geospatial and timeseries data with **Python**
- Discovered distinct flow states and significant correlation between precipitation and spring flow data³
- Algorithmically modeled flow of contaminants through 2 major rivers using streamflow measurements²
- Processed 2500mi² LiDAR imagery & terrain models with machine learning to identify swallows in **ArcGIS**¹
- Contributed analytic visualizations to yearly STATEMAP geologic map publications⁴

EDUCATION

Bachelor of Science in Computational Sciences, GPA: 3.79, *cum laude* May 2018

Florida State University, Tallahassee, FL

Minors in Math, Physics, and Environmental Science

Member of WIMSE Society (Women in Math, Science & Engineering)

Undergraduate Research Assistant January 2017 – May 2017

Dr. Ming Ye, Department of Scientific Computing, FSU

- Researched the causes and effects of nutrient pollution and algae blooms in Florida's water features
- Presented a summary of research findings at a weekly seminar

ACHIEVEMENTS

¹ Source Water Protection Tool	Built SWPT tool to process LiDAR in Python and detect swallows	2020
² Chipola River Contaminant Travel Time	Developed the Time of Travel algorithm used in the study	2019
³ On the Nature of Freshwater Flow	Authored research paper analyzing precipitation and spring flow	2018
⁴ OFR 106 & OFR 107	Contributed to 2 Geologic map publications for USGS STATEMAP program	2017
Awarded the 2018 FGS Individual Extra Effort Award in recognition for exceptional work performance		2018
Awarded the FSU University Freshman Scholarship in 2014 based on academic merit		2014