

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 swallets 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 swallets **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**