Daniel Scheuermann

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Education

University of Vermont – Burlington, VT

- *Master of Science – Complex Systems and Data Science* *May 2025*
- *Bachelor of Science – Data Science* *May 2024*

Experience

Data Engineer, Forest Ecosystem Monitoring Cooperative – Remote *December 2024 – Present*

- Develop and maintain FEMC's data-driven tools, including the Vermont Forest Indicators Dashboard, Northeastern Forest Inventory Network, and Forest Health Atlas, to support forest health monitoring and analysis across the Northeast.
- Design and implement **Automated ETL Pipelines** using **Python** and **R** for data collection, transformation, and updates to ensure the accuracy and timeliness of datasets.
- Utilize **GIS** tools, including **GeoPandas** and **ArcPy**, for spatial data processing and visualization to enhance insights into forest health and disturbance patterns.
- Build **Interactive Web Applications** using **JavaScript** and **PHP** to improve user engagement and accessibility of forest ecosystem data.

Full-Stack Web Developer, Freelance – Remote *October 2024 – Present*

- Build static and e-commerce sites for educational and hobbyist clients using **HTML**, **CSS**, **JS,** and **PHP.**
- Implement secure **User Authentication** and back-end functionality with **Python, Django**, **PostgreSQL** and various **AWS** tools (EC2, RDS, Elastic Beanstalk, S3).
- Implement **Payment Authentication** and destination charges via Stripe Connect.
- Deploy applications on Heroku using git-based version control and the **Command Line Interface**.

Data Analyst, Rosica – Burlington, VT *June 2024 – September 2024*

- Created a customizable **Excel** spreadsheet which cut client PR analysis time from 30+ minutes to under 5 minutes by utilizing **Decision Tree Models**.
- Performed **Exploratory Data Analysis** on client industry data to develop performance rating scales, aligning with market goals.

Research

Silviculture and Ecology Lab – University of Vermont *January 2025 – May 2025*

Research the ecological impact of Beech Leaf Disease (BLD) in the Northeastern US using **ArcGIS**, **R,** and **SQLite** to retrieve data, map tree densities, model wildlife distributions, and predict disease spread.

- Identified high-risk regions and proposed reforestation strategies with climate suitable replacement nut-bearing tree species.
- Developed a storyboard web application to visualize findings and support stakeholder decision-making.

Skills

Programming Languages: Python (Pandas, NumPy, Django), R, SQL, PHP, JavaScript, HTML, CSS
Data Analysis & Modeling: ETL Pipelines, Exploratory Data Analysis (EDA), Linear/Logistic Regression, Classification Techniques, TensorFlow, PyTorch
GIS & Spatial Analysis: ArcGIS, GrassGIS, GeoPandas, ArcPy
Cloud & Platforms: AWS (RDS, S3, EC2, Elastic Beanstalk), Git, GitHub, Command Line Interface