Hannah Siegel

hannahsiegel87@gmail.com | 971-294-2754 | [Portfolio](#) **|** [LinkedIn](#) | [GitHub](#) | Portland, OR (Relocation Available)

SUMMARY

Highly organized data science student skilled in Python, machine learning, and statistical analysis. Experienced in processing, analyzing, and transforming large datasets to create actionable recommendations through data visualization. Passionate about developing data-driven solutions for environmental and sustainability issues.

EDUCATION

B.S. Data Science, Spatial Data Science – University of Oregon   **Expected graduation: June 2026**
Minors: Geography, Climate Studies

Cumulative GPA 3.9/4.0 – Dean's List all semesters

Relevant Courses: Data Science, Machine Learning, R, Computer Science, Data Visualization, Stats for Data Science, Linear Algebra, GIScience, Remote Sensing

SKILLS

- **Software:** Python (Pandas, GeoPandas, ScikitLearn, visualization packages), SQL, R, Excel, Tableau, ArcGIS Pro, QGIS
- **Data Analysis:** Prediction, classification, modeling, data cleaning & EDA, visualization, dashboard creation
- **Professional Skills:** Problem-solving, communication, collaboration, attention to detail, leadership, project planning & organization

PROFESSIONAL EXPERIENCE

Data Science Learning Assistant – University of Oregon – Eugene, Oregon   September 2024 - ongoing
- Led weekly tutoring sessions, providing personalized support in Python, statistics, and **data science fundamentals**
- Guided students through labs & homework, fostering problem-solving skills, **collaboration**, and enhanced understanding

Data Analyst Intern – Helping Irish Hosts – Dublin, Ireland   July 2024 - August 2024
- Cleaned and standardized thousands of records of sensitive contact data & guided colleagues with **data-cleaning** tasks and software, ensuring accurate and consistent data entry
- Streamlined large-scale data imports from **Excel and Sheets** into **HubSpot CRM**, accelerating the matching process for over 1,000 host families and Ukrainian refugees
- Led the creation and presentation of **monthly dashboards** analyzing communications metrics, delivering powerful data visualizations and insights to optimize audience targeting strategies

Market Associate – Helvetia Farm Market – Hillsboro, OR   June 2022 - January 2024
- Delegated tasks, trained staff, and ensured accurate data entry while providing customer service in a fast-paced environment.

Mobile App Intern – Phase4 Mobile Inc. – Portland, OR   June 2019 - July 2021
- Analyzed revenue trends and organized sound data catalogs using **Python scripts** across 3 major apps

PROJECTS (Linked on my [Website](#) & [GitHub](#))

- **Sustainability and Energy Usage Data Analytics**

Developed predictive models using Python libraries to analyze country-level energy and CO2 emissions data. Performed data preprocessing, exploratory data analysis, inference, and optimization of **machine learning techniques** via k-fold cross validation and hyperparameter tuning.

- **Remote Sensing Analysis of Vegetation Burning and Regrowth**

Applied random forest **supervised classification** and NDVI change detection using Python Scikit-Learn, QGIS, and ArcGIS Pro to analyze satellite imagery and quantify post-fire vegetation recovery patterns.