Emilie Barbattini

Boulder, CO | emilie.barbattini@colorado.edu | 970.889.9594 | linkedin.com/in/emilie-barbattini

Information scientist skilled in data collection, management, and analysis with hands-on experience in stewarding large-scale national data archives and metadata databases. Eager to join an innovative team to empower smarter, data-driven decisions.

EDUCATION

UNIVERSITY OF COLORADO | Boulder, CO
BS, Information Science — m. Atmospheric and Oceanic Sciences
- GPA 3.9 – **Dean's List 2022-2024** – College of Media, Communication, and Information
- Relevant Coursework: Python for Information Science, Statistics, SQL, Information Visualization, Web Data Science

PROFESSIONAL EXPERIENCE

JUNIOR DATA MANAGER
NOAA's National Center for Environmental Information | Boulder, CO   *2023– Present*
- Stewarding a **320 terabyte and growing** archive of scientific data on cloud platforms and tape storage, utilizing Linux OS to adapt to new data types and maximize ingest efficiency.
- Developing and troubleshooting **automated Python scripts** to improve data pipeline efficiency.
- Managing an **Oracle SQL database**, logging dataset metadata and ensuring comprehensive and accessible records.
- Collaborating with colleagues and customers to fulfill data requests via cloud services, hard drives, and FTP servers.

DATA ANALYTICS INTERN
Trinity Access Programmes, Trinity College Dublin | Dublin 2, Ireland   *June 2023 – August 2023*
- Independently processed and cleaned several hundred gigabytes of quantitative student data from approximately **50 secondary schools and universities** using intelligence programs such as Qualtrics and Excel.
- Designed dynamic and interactive data visualizations in **Tableau** to assess outreach intervention effectiveness, integrate student and teacher feedback, and present insights in an engaging and comprehensive format.
- Partnered with analysts and educators to present findings to department heads, **facilitating discussions** on outreach programs and their **impact across different demographics**.

PROJECTS

PYTHON DEVELOPER | Ocean Acoustics Data Puller Scripts
- Independently developed Python scripts to automate data extraction, decompression, and validation, replacing a slow, manual process.
- Boosted operational efficiency and enhanced data accessibility and reliability, cutting operational overhead and improving workflow consistency.

TABLEAU DEVELOPER | Irish Secondary School Analysis
- Developed an interactive dashboard to visualize the impact of TAP initiatives across 50 secondary schools, integrating in-house data with national sources to compare student continuation rates into higher education.
- Delivered actionable insights that enabled TAP to tailor resources, assess program effectiveness, and adjust strategies to improve university attendance among low socioeconomic students.

KEY SKILLS

Programming Languages: Python (Pandas, OOP), SQL, Bash Scripting, Git
Data Visualization: Tableau, PowerBI, Canva, Python (Matplotlib, Altair, Seaborn)
Data Management: Qualtrics, AWS, Google Cloud Platform
Operating Systems: Linux, Windows, MacOS
Communication Tools: Microsoft Office & G-Suite, Slack
Professional Skills: Attention to detail, Technical Presentation, Project Management, Analytical Problem Solving