BENJAMIN WEDEPOHL

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EDUCATION

Denison University

Granville, OH

BA in Data Analytics, Minor in Mathematics

Graduating May 2026

Relevant Coursework:

Data Systems, Predictive and Applied Statistics, Practicum in Data Analysis, Linear Algebra and Differential Equations, Introduction to Proofs, Multi-Variable Calculus, Grand Strategy

TECHNICAL SKILLS

Languages: Python, R, SQL (Postgres, SQLite, DuckDB), HTML, Bash, CSS, MEX Frameworks: PyTorch, Dask, Hugo, FastAPI, Streamlit, DuckDB, ClickHouse

Libraries: geopandas, polars, xarray, gdal, BS4, FAISS, pandas, NumPy, Plotly, OpenAI

Tools: Dagster, Docker, Git, GEOS-CHEM, QGIS, GCP, tmux, MCP, rsync/rclone

EXPERIENCE

Research Intern May 2024 – Present

PHOENIX @ Wayne State University

Detroit. MI

- Developed automated pipeline to estimate daily PM2.5 concentrations at 1km resolution across 8 Midwest/Northeast states, integrating MODIS satellite data, ERA5 meteorological reanalysis, and EPA ground measurements; pipeline will be used in CURES-funded research
- Constructing scalable data orchestration system using ClickHouse and Dagster for processing of 10+ million row geospatial datasets with H3geo and C bindings for efficient spatial joins
- Implementing modeling framework to combine satellite-derived AOD/EVI features with meteorological variables for high-accuracy pollution predictions

Data Science Intern Feb 2025 – Present

Prosper Insights and Analytics

Columbus, OH

- Built full-stack consumer insights platform processing 8,000+ monthly survey responses, featuring a vectorized question database, ChatGPT API integration, and Streamlit deployment currently in beta testing
- Tuned semantic search engine allowing users to discover relevant survey questions through natural language queries filtered by demographics and subject matter
- Created automated analytics pipeline generating comprehensive reports with integrated Plotly visualizations and Word document export capabilities

Teaching Assistant

Denison University Granville, OH

DA352: Predictive Statistics

Aug 2025 - Present

- Authored in-class exercises on predictive statistics topics (e.g., variable selection, fixed effects), fostering applied learning and student engagement
- Wrote clear, accessible course materials by transcribing and formatting lecture notes, and collaborated with the instructor to enhance course delivery and student understanding

BIO356: Toxicology Jan 2024 – May 2024

- Supported 25+ students in R-based toxicological analysis, including dose-response modeling and risk assessment
- Assisted in developing R assignments, contributing to the department's adoption of R

Technical Director Jan. 2024 – Present

WDUB Radio Station Granville, OH

- Led successful negotiation with campus dining providers, securing an agreement to broadcast in three dining halls, thereby expanding the station's audience and presence on campus
- Enacted upgrades of the station computing and in-studio A/V system, allowing for real-time monitoring to comply with new DMCA regulations and performance rights contracts on track order and artist frequency