

# Dominic Bordelon

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## Summary

Experienced data professional with a strong background in data analysis, visualization, and management. Proficient in R, Python, and SQL, with a proven track record in developing and conducting data-centric training and workshops. Skilled in automating data collection processes, creating insightful data visualizations, and consulting on data-driven research projects. Demonstrated expertise in applying analytical skills in academic settings, contributing to enhanced research outcomes and operational efficiencies. Seeking to leverage extensive data analysis and management experience in a challenging Data Analyst role.

## Skills

**Computer programming:** R, Python, SQL, HTML, CSS, HTTP (Web APIs), Git and GitHub, developing application code (previously PHP, JavaScript)

**Data Analysis and Visualization:** exploratory data analysis, statistical modeling, machine learning, plots for presentation

**Data Management and Consultation:** information needs analysis, cultural competency, ethnographic interviewing, data modeling, data cleaning/munging, data integration, data validation, technical writing

**Languages:** English, Spanish, German

## Relevant Experience

**Research Data Librarian**, University of Pittsburgh – Pittsburgh, PA Nov 2019 – present

- Developed and conducted workshops on R for medical students and Social Work faculty (for example), focusing on data visualization and statistical analysis, enhancing their research capabilities. (321 participants in 2023)
- Provided expert consultation to researchers for data analysis, including troubleshooting, data restructuring, and tool selection, thereby improving research quality and efficiency. (78 consultations in 2023)
- Mentored undergraduate industrial engineering students on a predictive analytics project using census data to forecast local gentrification trends, fostering practical data application skills.
- Supported biomedical and social science data usage for academic research, contributing to successful course outcomes and research publications.
- Conducted in-class workshops for students of professorial faculty, enabling students to effectively utilize data in their academic projects.

**Library Technology Specialist**, European Southern Observatory–Garching, Germany Oct 2015–Oct 2019

- Managed and analyzed organizational data related to scientific publications, utilizing it to assess and report on scientific impact, supporting strategic decision-making.
- Developed and maintained application code for data curation processes, ensuring efficient ingestion, annotation, and publication of data records.

- Crafted SQL queries to generate insightful reports for stakeholders, aiding in data-driven decision-making processes.
- Designed and implemented data visualizations to represent publication data trends, facilitating easy comprehension of complex data sets.
- Collaborated in research teams to explore facility publication trends, contributing analytical expertise to interdisciplinary projects.
- Created and maintained dashboards for administrative and departmental resource allocation, optimizing operations and enhancing efficiency.

**Computer Services Librarian**, E. Baton Rouge Parish Library – Baton Rouge, LA      May 2014 – Sept 2015

- Automated the collection and centralization of system statistics from 14 locations into a relational database, significantly enhancing data accuracy and accessibility for analysis.
- Spearheaded the migration of the organization's financial data to a centralized relational database with an offsite backup schema, improving data security and integrity.
- Contributed to the data infrastructure development, enabling more efficient statistical collection and reporting, and minimizing risks associated with data loss.

## Education

**Graduate Certificate in Applied Data-Driven Methods** – University of Pittsburgh      Expected Fall 2024

Relevant courses: Managing, Querying, and Preserving Data; Applied Predictive Modeling

**Master of Library and Information Science** – Louisiana State University      2013

**Bachelor of Arts, Spanish** – Louisiana State University      2008

**Bachelor of Arts, History** – Louisiana State University      2008

**Bachelor of Arts, English, concentration: Writing & Culture** – Louisiana State University      2007

**Carpentries Certified Instructor** – The Carpentries      2020

## Selected Publications

Kerzendorf, W. E., Patat, F., Bordelon, D., van de Ven, G., & Pritchard, T. A. (2020). Distributed peer review enhanced with natural language processing and machine learning. *Nature Astronomy*.

<https://doi.org/10.1038/s41550-020-1038-y>

Patat, F., Boffin, H. M. J., Bordelon, D., Grothkopf, U., Meakins, S., Mieske, S., & Rejkuba, M. (2017). The ESO Survey of Non-Publishing Programmes. *The Messenger*, 170, 51–57.

<https://doi.org/10.18727/0722-6691/5055>

Leibundgut, B., Bordelon, D., Grothkopf, U., & Patat, F. (2017). Scientific Return from VLT instruments.

*The Messenger*, 169, 11–15. <https://doi.org/10.18727/0722-6691/5032>