

Lisa BEREZOVSKA

SCIENTIFIC DEVELOPER

Motivated beginner transitioning from academic research to data science, with a strong foundation in Python-based data processing, statistical analysis and reproducible workflows developed during a PhD and postdoctoral research. I bring rigorous data-cleaning, feature extraction and model-building practices to a Data Scientist role, delivering clear visualisations and actionable insights for multidisciplinary teams.

✉️ lisa.berezovska@gmail.com

🏡 Montpellier

🔗 www.linkedin.com/in/lisabere

💻 Open to remote work

Computer skills

Languages and libraries

Python (NumPy, pandas, seaborn), bash, SQL (base - in progress)

Tools

SLURM, Git, HPC, Linux

Languages

English

C1 (TOEIC 975/990)

French

B1 (en progression active)

Ukrainian

Soft Skills

Adaptability to new technologies

Solving complex questions

Team work and international spirit

Personal projects

- Analyse of unemployment rates in France in 2025 (SQL, pandas, Matplotlib)
- Exploratory analysis of russian strikes with pandas & seaborn
- Classification of images with PyTorch

Interests

Yoga, Boxing, Reading, Photo

Work experience

PostDoc

Jan. 2023 - Jun. 2025 (**2 years+**)

INSERM, Centre de Biologie Structurale, Montpellier, France

Data Science & Modeling

- Designed and executed large-scale molecular dynamics (MD) simulations generating multi-terabyte datasets; implemented efficient Python pipelines to extract, clean, and validate data.
- Applied statistical analysis (regressions, clustering, anomaly detection) to identify structural patterns, outliers, and correlations in high-dimensional time-series data.
- Built custom algorithms for trajectory processing and feature extraction using **NumPy, pandas, MDAnalysis**.
- Developed predictive models to analyze peptide behavior under varying structural and environmental conditions.

Project Leadership & Collaboration

- Collaborated closely with experimental biologists to translate their needs into analysis strategies and to interpret model outputs in a clear and actionable way.
- Wrote technical reports, scientific publications, and presentations summarising modeling results for multidisciplinary teams.
- Managed simulation workflows on HPC clusters, optimised data handling, and improved computational efficiency.

PhD in Physics

Oct. 2019 - Dec. 2022 (**3 years+**)

Institute Charles Sadron, Strasbourg, France

Thesis: Non-ideality in phospholipid mixtures: Molecular Dynamics view

- Analysed complex simulation datasets using Python; implemented statistical models to quantify uncertainties and detect trends in noisy data.
- Built reproducible data workflows (Python + bash) for multi-parameter simulations.
- Presented results to diverse audiences; transformed technical findings into clear visualisations and narratives.

Skills

Data wrangling and preprocessing

Data visualisation and storytelling

Scientific communication and presentation

Organisation and autonomous work

Cleaning, exploratory data analysis, outlier detection, structuring complex datasets

Education

PhD in Physics

Université de Strasbourg, France

2019 - 2022

MS in Condensed Matter and Nanophysics

Université de Strasbourg, France

Sept. 2018 - July 2019

Erasmus

Aston University, UK

Sept. 2017 - July 2018

BS Physics

National Kyiv University of Taras Shevchenko, Ukraine

Sept. 2013 - July 2017

Certification (towards Data Science and IA)

SQL (Mimo 2025)

Data Storytelling (Udemy 2025)

Google AI Essential V1 (Google 2025)