

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

2019 - 2022

Université de Strasbourg, France

MS in Condensed Matter and Nanophysics

Sept. 2018 - July 2019

Université de Strasbourg, France

Erasmus

Sept. 2017 - July 2018

Aston University, UK

BS Physics

Sept. 2013 - July 2017

National Kyiv University of Taras Shevchenko, Ukraine

Certification (towards Data Science and IA)

- SQL (Mimo 2025)
- Data Storytelling (Udemy 2025)
- Google AI Essential V1 (Google 2025)