

# Alessio Nespoli

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## WORK EXPERIENCE

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### University of Oslo

Mar.2025 – Present

*PhD Candidate at GliaLab*

*Oslo, NO*

- Analyse 2PM data to understand the relationship between neurodegenerative diseases, blood vessels functions and sleep in the brain of transgenic mice
- Developing software in MATLAB and Python to allow smooth and reproducible analysis of data in the lab

### SEW Eurodrive

Nov. 2023 – Feb.2025

*Data Engineer*

*Bruchsal, DE*

- Created dashboards to monitor employees' productivity using Python and QLIK: decrease in first contact wait by 83%, motors production output increased by 23%
- Created constraint optimization model using Google CP-Sat for optimizing AGV distribution across production area, 46% less queue time (> 5 min stop)

### Actogram

Jan. 2023 – Nov. 2023

*Freelance Data Scientist*

*Barcelona, ESP*

- Developed optimization algorithms for predictive models on sleep duration using Python and NHANES data
- Achieved an 89% F1 score and 88% ROC AUC scores in predicting working days using accelerometry data

### Techedge

Mar. 2022 – Nov. 2023

*Data Analyst*

*Milan, IT*

- Used Python and R to track, migrate and analyze data
- Cooperation for Bayesian optimization algorithm on road accidents' rate inferences

## EDUCATION

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### [Turing College Data Science](#)

May 2023 - Aug 2024

- Awarded 100% scholarship for the course
- ~16 real-life data science projects

### University College London

December, 2021

*MSc in Cognitive Neuroscience*

*London, UK*

- Advanced study of functional neuroanatomy of the brain, different ways to visualize brain activity
- Development of tests for neurological assessment and statistical models for data interpretation using MATLAB and JavaScript

## PROJECTS & PUBLICATIONS

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Synaptic plasticity mechanisms behind TMS efficacy: insights from its application to animal models. J Neural Transm (2021).

<https://doi.org/10.1007/s00702-021-02436-7>

### [AI 4 Health Challenge](#)

May 2022 - Aug. 2022

## SKILLS

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A/B Testing; Gorilla; JavaScript; MATLAB; Machine Learning; Power BI; Power Automate; Python; R; Statistics; SQL