

# Léandre Dubey

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## WORK EXPERIENCE

### Neuroengineering Lab, EPFL| Master Thesis

Sep. 2024 – June 2025

- Research on “Spontaneous Muscle Activity in Pupal Stage (*Drosophila Melanogaster*)”
- Data processing with advanced programming tools
- Imaging setup creation (Conception and 3D designing)
- Data collection using optogenetic and calcium imaging

### Research group: Neuronal circuits and behavior, UniFR| Internship

Jan. 2024

- Standard lab work with *Drosophila Melanogaster*
- Dissection of nervous system and reproductive system
- Use of a laser confocal scanning microscope
- Data collection and processing on reproductive behavior

### Division of Cognitive Biopsychology and Methods, UniFR| Internship

Jan. 2023 – Feb. 2023

- Designing and independently running an experiment on nap
- Independent data collection as main experimenter
- Pre-processing and analyses of data with R

### Neuropsychology, HFR | Internship

April 2022

- Observation of neuropsychological examinations
- Insight on clinical procedure
- Knowledge on neurological lesions and disorders

## EDUCATION

### Specialised Master in Digital Neurosciences

University of Fribourg | Sep. 2023 – Jul. 2025

120 ECTS cursus with focus on Neuroscience, Data Analysis and Machine Learning (60 ECTS of Master's Thesis)

### Bachelor of Science in Psychology

University of Fribourg | Sep. 2020 – Jul. 2023

180 ECTS Psychology cursus with neurosciences module. Insigni cum laude – 5.40

## LANGUAGES

French : Native speaker

English : B2, Excellent knowledge

German : C1, Excellent knowledge

Italian: B1, Intermediate knowledge

## PROGRAMMING SKILLS

Python

Master Thesis at EPFL

Courses: “Machine Learning”, “Data Analysis in Python”, “Graph-Based Pattern Recognition” at UniFR

Online specialisation: “Python for Everybody” in 5 courses by the University of Michigan

R

Courses: “Statistique et analyse de données I et II” at UniFR

C++

Course: Programations I à l'EPFL

JavaScript

Project: Multimodal Text Editor at UniFR