

Léandre Dubey

www.linkedin.com/in/léandre-dubey-1239872a7

Digital Neuroscientist, expert in giving sense to health/neuro data.

Passionate about data processing, wearables, biosensors, EEG, fMRI, EMG and BCI.



Curious, efficient and resilient

Contact details

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Linguistic skills

✓ French	Native
✓ German	C1
✓ English	B2
✓ Italian	B1

Technical skills

- ✓ Python
- ✓ R, Matlab
- ✓ Fusion 360
- ✓ LaTeX, Office Suite

Certificates

- ✓ Deep Learning (LauzHack 2025)
- ✓ EEG signal processing (2025)
- ✓ Python Specialization (2023)

See more

➤ <https://github.com/dubeyl>

Education

2023-2025* **MSc Digital Neurosciences** *University of Fribourg* - *ongoing, last semester

2020-2023 **BSc Psychology** *University of Fribourg*
Insigni cum laude

Experience and research projects

Neuroengineering lab EPFL (Prof. Pavan P Ramdya)

2024-25 July* **Researcher (1 year MSc Thesis)** *expected end

- Investigated spontaneous muscle activity in *Drosophila melanogaster*.
- Designed and implemented data pipelines for calcium imaging analysis using Python.
- Created an automated imaging setup with CAD and 3D printing

University of Fribourg

2024 Jan. **Intern, Research Group: Neuronal Circuits and Behavior** (Prof. Anne von Philipsborn)

- Conducted dissections of nervous and reproductive systems in *Drosophila melanogaster*.
- Operated laser confocal microscopes for data collection.
- Annotated reproductive behavior aided by statistical tools.

2023-2024 **Student projects**

- Eye-tracking and speech recognition aided text editor
- Affluence prediction in a bike rental service
- Comparison of wearable biosensors for sleep stages

2023 Jan.-Feb. **Intern, Division of Cognitive Biopsychology and Methods**

- Designed and conducted experiments on nap studies.
- Performed data pre-processing and analysis using R.

HFR Fribourg – Cantonal Hospital

2022 Apr. **Intern, Neuropsychology Department**

- Observed neuropsychological examinations and gained insight into clinical procedures.

Swiss Armed Forces

2019 **Radio Forces in Infantry**, long service