

Timothy Piton

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EDUCATION

ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

MSc. LIFE SCIENCE &

TECHNOLOGY

Grad. Oct 2020 | Lausanne, CH

Cum. GPA: 4.98/6

- Specialization in Neuroscience & Neuroengineering
- Minor in Management of Technology & Entrepreneurship

BSc. LIFE SCIENCE &

TECHNOLOGY

Grad. Feb 2018 | Lausanne, CH

Cum. GPA: 4.51/6

LYCÉE LOUIS LE GRAND

PCSI/PC* PREPARATORY

CLASSES

Sep 2012 - Jun 2014 | Paris, FR

LYCÉE FRANÇAIS JEAN MONNET

BACCALAUREAT SCIENTIFIQUE

Grad. Jun 2012 | Brussels, BE

LINKS

Github: [diomir0](#)

LinkedIn: [tpiton](#)

ORCID: [0000-0002-3217-0595](#)

Google Scholar: [Timothy Piton](#)

SKILLS

TECHNICAL

OS: Linux • MS Windows

Programming & Scripting: Python

- R • Matlab • C++ • C# • SQL •

Bash • Pure Data

Tools: Git (Github/Gitlab) • Docker

Data Science & ML: Jupyter •

pandas • NumPy • tidyverse •

sk-learn • Hugging Face • ollama

Cloud Platforms: Google Cloud

(Compute Engine)

Visualization: matplotlib • seaborn

- ggplot2

Software: MS Office Suite • Unity

LANGUAGES

French	Native
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English	C1/C2
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German	B1
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Greek	Independent
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EXPERIENCE

UNIVERSITY OF GENEVA | RESEARCH ASSISTANT @ FUNCTIONAL BRAIN MAPPING LAB

Sep 2023 - Sep 2024 | Campus Biotech Geneva, CH

- Planification & supervision of tACS brain-stimulations on Mild Cognitive Impairment (MCI) patients.
- Meta-analysis on EEG microstates' temporal dynamics in Alzheimer's disease and MCI patients data.

UNIVERSITY OF GENEVA | RESEARCH ASSISTANT @ BRAIN & LEARNING LAB

Mar 2023 - Aug 2023 | Campus Biotech Geneva, CH

- Implemented fine-tuned OpenAI Whisper model for verbal tests' automated transcription.
- Supervised a small team of undergraduate research assistants in data collection and preprocessing tasks.

ACADEMIC WORK | IT CONSULTANT @ ROLEX

Jun 2021 – Aug 2021 | Geneva, CH

Managed the inventory of the computer hardware of all three Geneva Rolex sites.

OPEN MIND INNOVATION | RESEARCH INTERN

Sep 2019 – Dec 2019 | Caen, FR

Designed an psychophysiological signal analysis pipeline (ECG, EGG, respiration, EDA and EEG) to be used in a cognitive load-inducing VR environment.

ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE | IT SUPPORT TECHNICIAN

Aug 2016 – Oct 2020 | Lausanne, CH

RESEARCH

BRAIN & LEARNING LAB, UNIGE | GRADUATE RESEARCHER

Sep 2021 – Mar 2023 | Geneva, CH

- Heavily contributed to the design of a computerized reading assessment battery (CRAB).
- Implemented customized IBM Watson Speech-to-Text model for verbal tests' automated transcription.
- Created user- and group-performance analysis scripts for all tasks of CRAB.

LABORATORY OF COGNITIVE NEUROSCIENCE, EPFL | UNDERGRADUATE RESEARCHER

Feb 2020 – Sep 2020 | Geneva, CH

- Contributed to the design of an experiment on the coupling of breathing and voluntary action initiation at various degrees of motor involvement.
- Set up and carried out the behavioral and psychophysiological data acquisition in 36 participants.
- Successfully created EEG and respiration data analysis scripts to ensure the replicability of previous findings and investigate experimental hypotheses.
- Grade: 6/6

ADDITIONAL EXPERIENCE

INDEPENDENT PROJECTS & TRAVEL

Oct 2024 - Aug 2025 | Europe & South East Asia

- Traveled across Thailand, Cambodia, Vietnam, Laos and Indonesia.
- Collaborated on redesign, content update and translation of a local website
- Dedicated time to music composition and production
- Developed adaptability, creativity and self-directed learning