



# XAVIER LINCE

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## EDUCATION

APPLIED DATA SCIENCE:  
MACHINE LEARNING  
EPFL EXTENSION SCHOOL  
2020 – 2020

MSc in NEUROSCIENCES  
Grade: 5.52  
UNIVERSITY OF GENEVA  
2017-2019

BSc in PSYCHOLOGY  
UNIVERSITY OF LIEGE  
2013-2016

## SKILLS

### TECHNICAL SKILLS

Python 3, R, SQL  
Deployment frameworks: Docker,  
Heroku, PEP8 with Black, PyTest  
Web framework: Flask  
GUI framework: Tkinter  
Data science stack: Pandas,  
Numpy, Stat, SciPy  
Data visualisation stack:  
Matplotlib, Seaborn, Plotly, Dash  
Machine learning & Deep learning  
stacks: Sklearn, Tensorflow,  
Keras, Pytorch, Stable-baseline3

### SOFT SKILLS

**Communication** – 4 years as a  
scoutmaster, supervising 60  
children from 8 to 17 y/o •  
**Teamwork** - team manager in an  
interdisciplinary team composed  
of researchers, teachers,  
engineers  
**Continuous learner** – Self-taught  
learner in reinforcement learning

### LANGUAGES

**French** (native) **English** (working  
proficiency) • **Spanish** (limited  
working proficiency)

## TECHNICAL PROJECTS

### OUR WORLD DATA WEB APPLICATION – [Github](#)

• Plotly visualisations on relevant world datasets integrated into a multi pages Dash web application • Dockerized and deployed via Heroku • Written according to best practices with Black formatter

### CATS VS DOGS CLASSIFIER WEB APPLICATION – [Github](#)

• CNN model with 98% accuracy • Integrated into a flask application • Dockerized and deployed via Heroku • Written according to best practices with Black formatter

### PREDICTING AUTISM WITH BEHAVIOURAL & fMRI DATA – [Github](#)

• Used of the complete data analysis stack to collect, analyse and visualize the data • Learned different fMRI analysis python frameworks • Defended as Capstone project in front of a jury at the EPFL

## WORK EXPERIENCE

### DEEP REINFORCEMENT LEARNING INTERNSHIP

Supervised by Dr. Solange Denervaud  
[2021-2022](#)

Learned and implemented all models by myself to start the project which aims at testing different kinds of feedbacks given to the agent to assess their learning performance.

### SNF SCIENTIFIC COLLABORATOR

Scientific collaborator on creativity for the SNF Spark initiative at University of Teacher Education (Valais)  
[2020-2021](#)

Managed research project • Creation of a gamified brainstorming in a web application • Design of the study to evaluate its impact • Data collection with brainstorming session - management of the groups • Data cleaning and EDA in Python • Statistical analysis (ANOVA) in R Studio;

### GRADUATE RESEARCH ASSISTANT

Supervised by Prof. Didier Grandjean and Dr Damien Benis (NEAD Lab)  
[2017-2019](#)

Clarified and refined a research question • Conducted recruitment and data collection using standardised tests and EEG • Analysed data on RStudio to draw relevant conclusions on memory • Pre-processed the EEG dataset and analysed on MATLAB to realize Event-related potential and Time-Frequency analysis • Redacted the thesis “Testing the Efficacy of the Mind Palace” (final grade:6).

### INTERNSHIP @CONNECTOMICS LABORATORY

Supervised by Prof. David Sander (E3 Lab) and Dr. Solange Denervaud  
[2019](#)

Realisation of Independent Component Analysis on fMRI datasets in MATLAB to assess if the school environment impacts the development of differences in connectivity between brain regions.