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 • MySQL • SQLite • Matplotlib • Seaborn • Numpy • Pandas • Scikit-learn • Machine Learning (KNN, SVMs, Decision Trees) • Deep Learning (Multilayer, CNN) • TensorFlow 2x • Keras • PyTorch • Deep Reinforcement Learning (DQN, DDPG, HER, PPO, TD3)

SOFT SKILLS

Creativity • Teamwork • Problem-solving oriented • Interdisciplinary perspective • Trilingual speaker

LANGUAGES

French (native) • English (working proficiency) • Spanish (limited working proficiency)
Python 3 (advanced) • R (intermediate) • MATLAB (intermediate) • C++ (beginner)

TECHNICAL PROJECTS

DEEP REINFORCEMENT LEARNING – Github
As beginner in the field of DRL, I 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.

PREDICTING AUTISM WITH BEHAVIOURAL AND fMRI DATA – Github
Capstone project to graduate from the EPFL during which I implemented several machine learning models to predict autism based on behavioural data and fMRI data with Nilearn and NiBabel.

WORK EXPERIENCE

DEEP REINFORCEMENT LEARNING COLLABORATOR
Supervised by Dr. Solange Denervaud
2021- 2022
The project 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 on creativity and brainstorming techniques • Conducted traditional and digital brainstorming sessions with groups of students • Design, development and testing of a digital brainstorming tool in collaboration with the HE-ARC for the SNSF Spark it initiative.

GRADUATE RESEARCH ASSISTANT
Supervised by Prof. Didier Grandjean and Dr Damien Benis (NEAD Lab)
2017-2019
Clarified and refined a research question following rigorous review of the current literature on memory • Conducted recruitment and data collection using standardised tests and EEG • Analysed behavioural data on RStudio, Analysed EEG data on MATLAB • 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
Analysed the differences in emotional regulation between traditional pedagogy and Montessori children • fMRI data analysis with functional connectivity methods