

Victor Fernando Lopes de Souza

Engineering Student at UFSC and CentraleSupélec

8 July 1999, Brazilian

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About Me

Passionate for innovation and technology. Interested in approaching complex problems and grasping complex concepts.

Looking for a PhD position starting in September 2024.

Enthusiast of Mathematics, Computing, Artificial Intelligence, Machine Learning and Stochastic Systems.

Skills

Development and Software

Python | Pandas | Numpy | Tensorflow | Keras | Matlab | Simulink | Git | JavaScript | Linux | LaTeX | R | Java | C++ | PHP | SQL

Academical Background

Control Systems | Temporal Logic | Probabilistic Models | Optimization | Automata | Algorithms

Languages

Portuguese (native) | English (C1) | French (C1) | Spanish (B2)

Education

2018-2024 UFSC - Universidade Federal de Santa Catarina — Florianópolis (BR)
Control and Automation Engineering
PAM - Advanced Mathematics Program

2021-2023 CentraleSupélec — Gif-Sur-Yvette (FR)
Engineering, with mention in Control

2022-2023 Université Paris-Saclay — Gif-Sur-Yvette (FR)
Master in Systems, Signals and Image Processing

2021-2022 Paris IV - Sorbonne Université — Paris (FR)
Bachelor's degree in Philosophy

2014-2017 IFSC - Instituto Federal de Santa Catarina — Florianópolis (BR)
Engineering Technician in Electronics

Work Experience

2023 Data Science Intern — Nice (FR)
at Amadeus IT Group
Developed an advanced machine learning system integrated into the Amadeus Smart Cache. Prototype submitted for patent application.

2020-2021 Student Researcher in Neural Nets — Florianópolis (BR)
at EMBRAPII, in partnership with Central Energia (R&D on trading)
Worked on building, training, and evaluating LSTM networks regarding the prediction of precipitation data for energy trading.

2018-2021 Student Researcher in Algebraic Topology — Florianópolis (BR)
at IMPA (Brazilian Institute of Pure and Applied Mathematics)
Research on advanced topics related to Geometric Group Theory. Prepared an introduction video and presented it in a congress in Paris.

2018–2019 Calculus Teaching Assistant — Florianópolis (BR)
at the Mathematics Department, UFSC
Hosted office hours to assist undergraduate students.

2016–2017 Intern as Web Developer — Florianópolis (BR)
at Oi S.A. (third largest telecommunication company in Latin America)
Developed PHP, Shell, BASIC and Kernel scripts.

Projects

2022 Training Neural Networks with Kalman Filters — Gif-Sur-Yvette (FR)
Use of modern control methods for training Neural Nets

2022 Exploring portfolio optimization methods, with BNP — Gif-Sur-Yvette (FR)
Implementation and Evaluation of some portfolio allocation methods

2022 System for inform on cancer, with Health Guide AI — Gif-Sur-Yvette (FR)
Testing of different recommendation algorithms for this purpose

Honours and Awards

2024 Summa Cum Laude, Highest GPA at UFSC graduation
2021 BRAFITEC, Merit Scholarship for Double Degree in France
2019 Qualified to Final Phase, OBMU (National University Maths Olympiad)
2018 Freshman Award, OEI (Organization of Ibero-American States)
2017 Silver Medal, OBMEP (National High School Mathematics Olympiad)
2016 Silver Medal, OBMEP (National High School Mathematics Olympiad)
2014 Honourable Mention, OBMEP (National High School Maths Olympiad)