

# 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 Tensforflow | Keras | Matlab

Simulink Git | JavaScript | Linux C++ || PHP MEX | R Java

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 Control and Automation Engineering PAM - Advanced Mathematics Program	Florianópolis (BR)
2021-2023	CentraleSupélec Engineering, with mention in Control	Gif-Sur-Yvette (FR)
2022-2023	Université Paris-Saclay Master in Systems, Signals and Image Processing	Gif-Sur-Yvette (FR)
2021-2022	Paris IV - Sorbonne Université Bachelor's degree in Philosophy	Paris (FR)
2014-2017	IFSC - Instituto Federal de Santa Catarina Engineering Technician in Electronics	Florianópolis (BR)

Work Experience		
2023	Data Science Intern at Amadeus IT Group	Nice (FR)
	Developed an advanced machine learning system int Amadeus Smart Cache. Prototype submitted for pate	~
2020-2021	Student Researcher in Neural Nets at EMBRAPII, in partnership with Central Energia (R& Worked on building, training, and evaluating LSTM n ing the prediction of precipitation data for energy training	etworks regard-
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 at the Mathematics Department, UFSC Hosted office hours to assist undergraduate students	Florianópolis (BR)
2016–2017	Intern as Web Developer at Oi S.A. (third largest telecommunication company is Developed PHP, Shell, BASIC and Kernel scripts.	Florianópolis (BR) n Latin America)

## **Projects**

2022	Training Neural Networks with Kalman Filters Implementation of modern control methods for train and use of the Kalman filter as an optimization algori	•
2022	Exploring portfolio optimization methods, with BNP Implementation and Evaluation of some portfolio allo	` '
2022	System for inform on cancer, with Health Guide AI Testing of different recommendation algorithms for the	Gif-Sur-Yvette (FR) nis purpose

### **Honours and Awards**

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)