

Education

São Paulo, Brazil	UNIPDS / Anhanguera	2026 - present
• Postgrad. Specialization in Applied AI Engineering, focusing on LLMs, Generative AI, AI Agents, RAG, MCP, Fine-Tuning & Security.		
Piracicaba, Brazil	University of São Paulo (USP)	2024 - 2026
• MBA in Software Engineering at USP/ESALQ.		
Nancy, France	University of Lorraine	2019 - 2020
• Ph.D. internship at LORIA Institute, France in partnership with INRIA.		
Campinas, Brazil	University of Campinas (UNICAMP)	2017 - 2022
• Ph.D. in Computer Science. GPA: 3.85/4.0 (2017 - 2022).		
• M.Sc. in Computer Science. GPA: 3.85/4.0 (2015 - 2016).		
Arequipa, Peru	National University of San Agustín (UNSA)	2008 - 2013
• B.Sc. in Systems Engineering (Computer Science).		

Research Interests

- Computer Vision, Pattern Recognition, Generative AI, Machine Learning, Deep Learning, LLM, and NLP.

Work Experience

Professor - Part-time	SENAI/SC	Aug. 2026 - Present
• Machine Learning instructor, mentoring students, statistics, ML algorithms, and ML libraries.		
Machine Learning, NLP Developer	SiDi - Samsung Institute	Apr. 2022 - Present
• Model development for classification in Samsung's virtual assistant (Bixby), for mobile, watch, TV, and fridge devices. –LLM, TensorFlow, PyTorch, JSON, Java, NLP, Kubeflow, Jupyter, Pandas, Scikit-Learn, Python, Pytest, Docker, NLTK, REST API, AWS.		
Professor - Part-time	FACENS University	Aug. 2024 - Jun. 2026
• Professor of Statistics and Business Intelligence (BI). –PowerBI, Jupyter, Pandas, Scikit-Learn, Python.		
Software Consultant	zAgile Inc.	Aug. 2016 - Feb 2017
• Developed automatic tests to verify correct communication between Salesforce and JIRA, improving the efficiency in ~ 80%. –Selenium, Pytest, Python, REST API.		
Researcher/Developer	Incalpaca TPX S.A	Aug. 2013 - Jan 2015
• Implemented GLCM, Gabor, and LBP algorithms for feature extraction and built median and gaussian filters for generating candidate regions, achieving ~ 99% of sensitivity. –OpenCV, C++, Qt4.		
• Implemented and evaluated $CIEL^*a^*b^*$ algorithm and color-matching functions, in quality control process, achieving mAP ~ 87%. –OpenCV, C++		

Academic Projects

- **Handwritten Digits Classification.** Implemented convolutional neural network and recurrent neural network (vanilla and LSTM) from scratch, achieving accuracy ~ 90%. –TensorFlow, Numpy, OpenCV, Python.
- **Text Classification.** Built a bag of word method and evaluated several classifier (Support Vector Machine-RBF, Random Forest, Gradient Boosting Machine and Multilayer Perceptron) over ROC curve, obtaining accuracy ~ 84%. –Scikit-Learn, Python.
- **License Plate Detector.** Created detection part by developing techniques of equalization, morphological transformations, Otsu binarization and Sobel corner detection. Obtaining ~ 99% of sensitivity. –C, C++
- **Parallel k-means.** Implemented parallel k-means clustering, using OpenMP pragmas and CUDA-GPU, improving the speedup of ~ 7% and ~ 5% respectively. –C++, OpenMP, CUDA

Publications

- “Graph Learning Network: A Structure Learning Algorithm”, ICMLW, 2019
- “Semantic Segmentation on Image Using Multi-Task Hourglass Networks”, NeurIPS Workshop, 2019
- “Semantic Segmentation Through Graph Neural Network Blocks”, ICML Workshop, 2020
- “Documents Counterfeit Detection Through a Deep Learning Approach”, ICPR 2020
- “Empirical Study of Multi-Task Hourglass Model for Semantic Segmentation Task”, IEEE Access Journal, 2021
- “Global and Local Features through Gaussian Mixture Models on Image Semantic Segmentation”, IEEE Access Journal, 2022

Languages

- Spanish (native); English (intermediate); Portuguese (proficient).