

CHRISTIAN DAYAN ARCOS GORDILLO

Machine Learning Research.



PROFILE

I am a machine learning research with background in speech recognition and computer vision. I obtained my Ph.D degree from PUC-Rio and became a postdoctoral research at UIS-Colombia afterwards. I lead the machine learning group at vozy. My goal is to build cognitive systems capable of performing complex tasks in complex environments,



FORMAL EDUCATION/ DEGREE

Pontifical Catholic University of Rio de Janeiro, Brazil

February 2014 – April 2018

Degree: Ph.D. in Electronic Engineering

Enhancement and continuous speech recognition in adverse environments

Pontifical Catholic University of Rio de Janeiro, Brazil

February 2011 – November 2013

Degree: MSc Electronic Engineering

Continuous Speech Recognition with MFCC and PNCC features and robustness techniques Wavelet Denoising, Histogram Mapping, Spectral Subtraction and Filter with Neural Networks

Mariana University. Colombia

August 2018 – December 2018

Degree: Pedagogy and institutional identity

Francisco de Paula Santander University. Colombia

January 2005 – February 2011

Degree: Electronic engineer

Supervise and support in mechatronic automation projects of the International Clean Production Center Lope from SENA



PROFESSIONAL EXPERIENCE

VOZY

Machine Learning Engineer Lead

September 2021 - present

Lead and research the way in which conversational agents generate a better conversation flow, by improving the acoustic and language models used for the NLP, STT and TTS architectures.

Technologies used: Python, Bash-script, Keras, Pytorch, Docker, Gitlab

VOZY

Machine Learning Engineer

September 2020 – September 2021

Development and research in the area of speech recognition and audio processing for new and challenging environments using advanced machine learning techniques.

Technologies used: Python, Bash-script, Keras, Pytorch, Docker.

UNIVERSIDAD INDUSTRIAL DE SANTANDER

PostDoctoral Research Fellow

One year of research, May 2020 to May 2021

Development of an optical-computational system for the fusion of depth and hyperspectral images using deep learning techniques and their application in the classification of citrus by its level of maturity.

Technologies used: Python, keras, Pytorch, Optical software, Optical hardware.

o DETAILS o



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o LINKS o

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o SKILLS o

Machine Learning

Signal Processing

Bash

Linux OS (command Line)

Python

Matlab

GIT/Git hub

R

JavaScript

o LANGUAGES o

Spanish

Portuguese

English

o AWARDS o

Best Paper Award 2017

World Academy of Science, Engineering and
Technology

PhD scholarship, Student Grade 10

Fundação de Amparo à Pesquisa do Estado do Rio de
Janeiro – FAPERJ



AGM

System and Development Analyst
Mar 2013 – Dec 2013

Researched new technologies for speech recognition. Responsible for the development of software to process speech. Developed a speech enhancement system in Python for an integration with an automatic recognition unit. Recorded audio to create acoustic models. Built a Python character classifier to elaborate language models. In charge of the test approach, test scenario and test plan.

Technologies used: Python.



ABMTENC

Technical Assistant and Software Support
Feb 2012 – Feb 2013

Provided software and hardware maintenance. Diagnosis and correction of errors found during the use of the programs. Adapt the system to changes that may occur in hardware, operating system, peripherals and work tools

Technologies used: LabView, Matlab, OS Linux.



SENA

Engineering Assistant
Jan 2010 – Jan 2011

Provided software and hardware maintenance. Was adviser of mechatronic automation projects. Designed and implemented electronic telemetry systems. Controlled networks and communications systems

Technologies used: C++, LabView, XBee, Bash(Unix Shell), Proteus.



TEACHING EXPERIENCE

Private University

Teacher
Sep 2018 – Nov 2018

Taught about artificial intelligence and signal processing to students.

Private University

Research Professor
Aug 2018 – Dec 2018

Researched about neural networks applied to civil engineering. Professor of Numerical Methods, Static and Dynamic, and elective writing. Also developed the web of the civil engineering program.



PUBLICATIONS AND CONFERENCE PRESENTATIONS

- Journals: 2 refereed journal articles.
- Conference Presentations: 9 refereed international conference papers.
- Invited Lectures: 2 invited lectures at universities in Colombia and Ecuador.