Resume

Nicolás Pérez de Olaguer Santamaría

23 - 09 - 1995 Barcelona

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Education:

- **Master of Science in Intelligent Adaptive Systems (Artifical Intelligence),** Universität Hamburg. 2017-2020
- **Erasmus period. Telematics Engineering:** Universidade Nova de Lisboa. 2016
- **Bachelor's degree in Telematics Engineering:** Universitat Pompeu Fabra, Barcelona. 2013 - 2017
- **High School (specialty in technology):** Frederic Mistral – Tècnic Eulàlia, Barcelona. 2011 - 2013

Skills:

Operating Systems: Linux, Mac, Windows.
Programming languages: Python, Matlab, Bash, C, LaTex, Java, Android Studio.
Software & Frameworks: Numpy, Tensorflow, PyCharm, Git, Keras, Scikit-Learn, Docker, Open CV , Amira, Redmine, Trello.

General Competencies:

- **Team working.**
- **Motivational skills.**
- **Problem solving.**
- **Effective Planning and Organization.**

Languages:

- **English:** Professional working proficiency. IELTS C1. British Council. June 2016.
- **Spanish:** Native or bilingual proficiency.
- **Catalan:** Native or bilingual proficiency.
- **Deutsch:** Elementary proficiency. B2. Universität Hamburg. August 2018

Publications:

- Combining Template Matching with CNNs for Vertebra Segmentation, Localization and Identification. "VerSe: A Vertebrae Labelling and Segmentation Benchmark." arXiv preprint arXiv:2001.09193 (2020).
- Driver Response Couplings Between Networks in Chimera States. Jun 5, 2017 · XXXVII Dynamics Days Europe Book of Abstracts (p.53)

Experience:

MACHINE LEARNING ENGINEER

1000Shapes

May 2019 - Aug 2020

Member of the machine learning team of the company where I developed my master thesis. In association with the Computer Vision research group of Universität Hamburg.

Using different convolutional neural network architectures, developing a functional product that derives 3D anatomical landmarks in real X-Ray images. Part of the algorithm was used in the VerSe challenge (for automatic vertebrae localization and segmentation) of MICCAI 2019 in Shenzen, China. Supervisors: Prof. Dr. Simone Frintrop & Dr. Hans Lamecker.

RESEARCH ASSISTANT & IT TECHNICIAN

Universität Hamburg

Dec 2017 - May 2019

Working as a student assistant as a side job of my studies in the IT department of the Centre of Bioinformatics and the Signal Processing (SP) group of the University. With the SP group, I helped prof. Dr. Timo Gerkmann with SP research and material for undergraduate courses.

In the Bioinformatics department, involved in a project of testing different scenarios of virtualization techniques for distributed systems. Configuring different test-cases for servers in the Xen project and KVM as hypervisors to run an OpenSuse Linux distribution on top. Use of Bash scripting for testing and Matlab for visualization purposes.

IT TECHNICIAN

Mobile World Congress Barcelona 2017

Feb 2017 - Mar 2017

Member of the IT department at the GSMA Mobile World Congress 2017, at Fira de Barcelona. I was designated in one of the most challenging areas, where our goal was to design, configure and give internet access to the most exigent expositors and staff at the MWC. We set up the access network, an important task that I really enjoyed, learning and understanding how to manage such a big telematic system.

RESEARCH ASSISTANT AT BIOMEDICAL ENGINEERING DEPARTMENT

Deutsches HörZentrum Hannover

Jun 2016 - Sept 2016

Under the command and supervision of Dr. Waldo Nogueira, I had the opportunity to join the Cluster of Excellence Hearing4all of the German Hearing Center, focused on Cochlear Implant (CI) research. My job was developing a system able to record neural impulses as a response to the CI stimuli using Python. Besides, I fixed and developed an existing Android application named "MusIC APP", whose objective is improving music experience in CI patients.