



Pablo Ruiz

 pabloruizruiz10@gmail.com

 (+34)649 333 159

 <https://www.linkedin.com/in/pabloruizruiz/>

 <http://www.pabloruizruiz10.com>

 <https://github.com/PabloRR100>

EXPERIENCE

Harvard University, SEAS – Massachusetts, USA

(July 2018 – November 2018)

- Research on designing techniques to accelerate ensembles of deep convolutional networks' training.
- Research on developing strategies to improve computation efficiency and generalization during inference.
Tech: PyTorch, Azure
- Member of the Harvard Undergraduate Robotics Club

Data Scientist

Accenture Applied Intelligence, Supply Chain and Operations – Madrid, Spain

(April 2018 – July 2018)

- I worked on the teams on a warranty strategy definition for CNHI.
- Text sentiment analysis for claims liability assessment to minimize the recovery lost opportunities. I collaborated with the Computer Vision group at Barcelona creating a tool for optical character recognition on handwritten tolerance measurements for Airbus
Tech: Python, R, QlickSense

Machine Learning Engineer

Luxembourg Institute of Science and Technology, Advanced Analytics

(Sep 2017 – Mar 2018)

- Develop forecasting of the behavior of the temperature and silicon content on the metal produced on a blast furnace for Paul Wurth steel maker company where 3 different approaches applied LSTM, Gaussian Processes and Genetic Programming.
- Machine Learning model implementation for anomaly detection on polymer extruders for Tetra Pak
Tech: Keras

Data Team Responsible and Coordinator

Atos Major Events – Taipei, Taiwan & Mokpo, South Korea

(Jul 2017 – Sep 2017) & (Jun 2015 – Jul 2015)

Responsible of the football venue for the data acquisition, storage and load during the Universiade 2015 in South Korea and repeated for the Universiade 2017 in Taiwan. In charge of the accessibility of live data and the training and coordination of the volunteers' team for the data acquisition.

Student Researcher

Buenos Aires Institute of Technology, Material Science Department – Argentina

(Feb 2017 – Jul 2017)

- Development of mathematical model-based reactor simulator.
- Research on state-of-the-art techniques for free radical initiated polymerization. Simulation of the evolution of molecular weight and radicals' distribution.
Tech: MATLAB

Software Engineer Intern

Typeform, Product Growth – Barcelona, Spain

(Sep 2016 – Feb 2017)

- Analysis of the conversion of free account users to premium and performance of AB tests
- Agile and scrum work orientation following Test-Driven Development methodology
Tech: Python, Ruby, LaunchDarkly, Segment

EDUCATION

Deep Reinforcement Learning Nanodegree Program

(Aug 2018 – Dec 2018)

Udacity – Unity, NVIDIA

Ongoing.

Computer Vision Nanodegree Program

(May 2018 – Aug 2018)

Udacity – NVIDIA, Affectiva

- Design a facial key point detector for estimating face poses.
- Build a CNN+LSTM architecture with attention for image captioning.
- SLAM implementation of an agent on a 2D environment for object tracking and self-localization.

Artificial Intelligence Nanodegree Program

(Dec 2017 – Mar 2018)

Udacity – IBM, Amazon

- Develop an adversarial search agent to play deterministic 2 two-player game with perfect information.
- Develop a planning search agent to solve deterministic logistics problem for Air Cargo transport system.
- Build a speech sign language recognizer.

Master's Degree in Visual Analytics and Big Data

(2016 – 2018)

La Rioja International University

Grade: 9.1 / 10.

***Awards:** International Mentoring Foundation for the Advancement of Higher Education Excellence's Fellowship.

***Final Master Project:** "Visualization tool-oriented web platform for increase customer experience on sports betting market" – Tech: Django, Dash, Plotly, PostgreSQL, BeautifulSoup4.

Master's Degree in Engineering

(2015 – 2017)

Catalonia Polytechnic University

Grade: 8.2 / 10.

***Specialization:** Polymeric Materials and Nanotechnology

***Final Master Project:** "Mathematical model for the polymerization of MMA using cyclic multifunctional initiators". Simulator developed with MATLAB – **Qualification:** 10 / 10.

Bachelor's Degree in Chemical Engineering

(2011 – 2015)

Madrid Polytechnic University

Grade: 7 / 10.

* **Honors:** Best student of the class.

* **Final Bachelor Project:** "Development of a web application to simulate chemical reactions implementing statistical factorial designs" – Tech: JS, MySQL, PHP – **Qualification:** 9.6 / 10.

EXTRAORDINARY TRAINING

The Unreal Engine Developer Course	GameDev.tv	2018
C++ for Programmers	Udacity	
Deep Learning: Advanced Computer Vision	Udemy	
Master Computer Vision – OpenCV3	Udemy	
Practical Deep Learning with PyTorch	Udemy	2017
Interactive Python Dashboards with Plotly and Dash	Pierian Data	
Deep Learning and Computer Vision A-Z: SDD and GANs	Superdatascience	
Artificial Intelligence A-Z	Superdatascience	
Complete Guide to TensorFlow for Deep Learning	Pierian Data	2016
Machine Learning A-Z	Superdatascience	

LANGUAGES

Spanish: Native

English: Professional – TEOFL iBT: 97 (C1) – 2016

PUBLICATIONS

In Preparation

“Mathematical Model of the Batch Polymerization of PMMA using novel symmetric cyclic multifunctional initiators DEKTP and PDP”.

COMPUTER SCIENCE SKILLS

Programming Languages: Python, C++, MATLAB, JavaScript, SQL, R, Bash, Arduino

Artificial Intelligence: PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn,

Software Tools: Git, Azure, Docker, Hadoop, SLURM, GPU

Visualization Tools: Plotly-Dash, Tableau, QlickSense, Shiny, D3.js

Database Management: MySQL, PostgreSQL, MongoDB

REFERENCES

Prof. Dr. José Alberto Jaén Gallego

Polytechnic University of Madrid

Department of Automatic, Electric and Electronic Engineering and Industrial Computing

jjalen@etsii.upm.es | +34 91336360

Prof. Dr. Jorge L. C. Sanz

National University of Singapore and Luxembourg Institute of Science and Technology

School of Computing and Business School. IEEE Society Fellow

jorges@nus.edu.sg | +352 621751042

Dr. Diana Estenoz

CONICET, Universidad Nacional Litoral, UNL and Buenos Aires Institute of Technology, ITBA.

Principal Researcher at Institute of Technological Development for the Chemical Industry

destenoz@santafe-conicet.gov.ar | +54 3424511595