

# Iván Vallés-Pérez

Phone: (34) 638 392 209 • e-mail: [ivanvallesperez@gmail.com](mailto:ivanvallesperez@gmail.com) • Skype: ivallesp  
GitHub: <http://www.github.com/ivallesp> • Web page: <http://www.uv.es/ivape3>

## PROFILE

Senior Data Scientist at McKinsey & Company and PhD student in Deep Reinforcement Learning in the University of Valencia, proactive and with a clear vocation for the world of the Artificial Intelligence. Currently living in Madrid (Spain).

## EXPERIENCE

**Senior Data Scientist at McKinsey & Company** *June 2016 - Present*

Advanced Analytics Hub (MadLab)

Leading analytics teams (5-10 data scientist) and leading different deep learning and machine learning related solutions. Analysing terabytes of data from big companies around the world. Industries: banking, telecommunications, energy and pharmacy. Specialist areas: deep learning, reinforcement learning, stacked generalization, recommendation engines, machine learning, python & R.

**Data Scientist at Quarizmi Adtech**

*November 2014 - June 2016*

Specialist areas: online marketing, natural language processing, machine learning, cloud computing, amazon web services, big data, scrum, python.

**Data Scientist at University of Valencia**

*May 2014 - November 2014*

University of Valencia, Faculty of Psychology, Personality, Assessment, and Psychological Treatments. Preprocess, modeling, reporting and analysis using of all kinds of noisy psychological data. Specialist areas: machine learning, survey analysis, self-organising maps, manifolds, feature engineering, graphical models, artificial neural networks, R, Python & Matlab

**Data Scientist at iDAL**

*September 2013 - Present*

Intelligent Data Analysis Laboratory, Universities Ave., Burjassot, Valencia, Spain

I was working on different projects with Emilio Soria-Olivas, PhD, Rafael Magdalena-Benedigo, PhD and Joan Vila-Francés, PhD. Industries: Medicine, IT. Specialist areas: deep learning, artificial neural networks, algorithms design, Matlab, R

**Electronics Engineer at IFIC**

*January 2013 - June 2013*

Corpuscular Physics Institute, Consejo Superior de Investigaciones Científicas, km3NET project.

Specialist areas: C++, FPGAs, programming.

## ACHIEVEMENTS

**Kaggle strong expertise**

- TOP 2% in Kaggle Santander Product Recommendation Competition (22nd/1787)
- TOP 1% in Kaggle BNP Competition (22nd/2947)
- TOP 5% in Kaggle SpringLeaf Competition (76th/2225)

**Open-source development contributions, machine learning related projects:** scikit-learn, pandas, google tensorflow, xgboost, sompy, scikit-stack, etc.

**Development of the algorithm *Genetic Extreme Learning Machine*: a new Deep Learning algorithm able to achieve better performance than its predecessor (Extreme Learning Machine)**

**Development of the algorithm *ScriptGAN*: a Generative Adversarial Network for generating natural language**

## CONFERENCES ATTENDANCE

**NIPS 2018: Neural Information Processing Systems,**

*December 2018*

**NIPS 2017: Neural Information Processing Systems,**

*December 2017*

**AI With The Best,**

*April 2017*

**NIPS 2016: Neural Information Processing Systems,**

*December 2016*

**Neural Networks and Deep Learning - ASDM: Universidad Politécnica de Madrid,** *July 2016*

## COMPUTING SKILLS

**Programming Skills:** Python (incl. TensorFlow and PyTorch), R, Matlab, C/C++, Shell scripting

**Big Data:** Apache Spark, SQL, Teradata, Redis, Amazon Web Services

## LANGUAGE PROFICIENCY

Advanced in **English**

Native **Spanish** and **Catalan**

## REFEREES

**Emilio Soria-Olivas, PhD**, University of Valencia, ETSE

**Rafael Magdalena-Benedito, PhD**, University of Valencia, ETSE

**Joan Vila-Francés, PhD**, University of Valencia, ETSE

## ACADEMIC HISTORY

<u>Studies</u>	<u>University</u>	<u>Year</u>
PhD. Deep Reinforcement Learning	University of Valencia	In preparation
M.Sc. Languages and Computer Sciences Systems (NLP)	Universidad Nacional de Estudios a Distancia, UNED	2018
B.Eng. Electronics of Telecommunications Engineering	University of Valencia	2013

## FURTHER EDUCATION

<u>Course name</u>	<u>University</u>	<u>Year</u>
- Deep Reinforcement Learning Nanodegree	Udacity	In preparation
- Practical Reinforcement Learning	National Research University Higher School of Economics	2018
- Sequence Models (Andrew Ng)	deeplearning.ai	2018
- Convolutional Neural Networks (Andrew Ng)	deeplearning.ai	2017
- Structuring Machine Learning Projects (Andrew Ng)	deeplearning.ai	2017
- Improving Deep Neural Networks (Andrew Ng)	deeplearning.ai	2017
- Neural networks and Deep Learning (Andrew Ng)	deeplearning.ai	2017
- Neural Networks and Machine Learning (G. Hinton)	University of Toronto	2017
- Neural Networks and Deep Learning	ASDM: Universidad Politécnica de Madrid	2016
- Managing Big Data with MySQL	Duke University	2016
- SQL	Stanford University	2016
- Relational Algebra	Stanford University	2016
- XML Data	Stanford University	2016
- JSON Data	Stanford University	2016
- CS190.1x, Scalable Machine Learning (with Apache Spark)	Berkeley	2015
- CS100.1x, Introduction to Big Data with Apache Spark	Berkeley	2015
- Programming for Everybody (Python)	University of Michigan	2015
- Developing Data Products	Jons Hopkins University	2014
- Practical Machine Learning	Jons Hopkins University	2014
- Regression Models	Jons Hopkins University	2014
- Statistical Inference	Jons Hopkins University	2014
- Reproducible Research	Jons Hopkins University	2014
- Exploratory Data Analysis	Jons Hopkins University	2014
- Getting and Cleaning Data	Jons Hopkins University	2014
- R Programming	Jons Hopkins University	2014
- Data Scientist's Toolbox	Jons Hopkins University	2014
- Data Analysis and Statistical Learning	Duke University	2014
- StatLearning: Statistical Learning	Stanford University	2014
- Hadoop Fundamentals	Big Data University	2014
- Introduction to Statistical Analysis using R	Catholic University of Murcia	2013
- 6.00.1x Introduction to Computer Science and Programming with Python	Massachusetts Institute of Technology	2013
- Machine Learning (Andrew Ng)	Stanford University	2013
- Data mining with Weka (Ian Witten)	University of Waikato	2013

## JOURNAL PAPERS

**Visual Data Mining With Self-organizing Maps for “Self-monitoring” Data Analysis**, *Sociological Methods & Research*, E. Oliver-Gasch, I. Vallés-Pérez, R.M. Baños-Rivera, A.J. Cebolla-Martí, C. Botella-Arbona, E. Soria-Olivas. August 2014

**Self-Organizing Maps (SOM) in the analysis of EMAs in a treatment for childhood obesity treatment**, *International Society for Research on Internet Intervention (ISRII)*, R.M. Baños-Rivera, E. Oliver-Gasch, A.J. Cebolla-Martí, I. Vallés-Pérez, E. Soria-Olivas, C. Botella-Arbona. October 2014

## TEACHING

*2-session seminar*

May 2014

### **Introduction to L<sup>A</sup>T<sub>E</sub>X**

University of Valencia, Faculty of Psychology, Personality, Assessment, and Psychological Treatments