

Daniel Mateos San Martín

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SUMMARY

Data Scientist and Educator

I am a freelance Data Scientist with strong software development skills, experience in the natural sciences, and a long history of teaching. I have developed Big Data software in large teams with current methodologies: Continuous Integration and Deployment, Unit Testing, and of course Distributed Version Control. I have seen several Big Data software products to production. I am fluent in Scala, Python, and SQL, and have written code in several other languages. I know Statistics and Machine Learning, including Deep Learning for image processing. I know how to integrate into a team and learn the specifics of the business that I need to be effective at my job.

GENERAL

K School, Madrid, Spain

Feb 2018 – Present

EXPERIENCE

Technical Director, Master in Data Science

I organize and ensure smooth running of the academic aspects of the Master's title in coordination with the Director.

Yogen, Madrid, Spain

Jun 2017 – Present

Founder, Data Scientist

I lead projects with institutional and private customers in order to transform vast amounts of data into insight and actionable information.

K School, Madrid, Spain

Sep 2015 – Present

Lecturer, Master in Data Science

I teach data exploration and data mining, using the Python scientific stack and Spark for large scale data analysis to prospective Data Scientists. I prepare my own class materials and exercises, deliver lectures, and support colleague's lectures. I have been consistently rated above 90% by the students in the anonymous feedback we collect.

Amadeus IT Group, Madrid, Spain

Mar 2014 – Nov 2016

Data Scientist, Travel Intelligence Unit

I applied Big Data techniques (Spark, MapReduce, Scala, Scoobi, SQL on Impala) to analysis of large-scale airline datasets to produce live dashboards and reports, and the Python scientific stack (pandas, scikit-learn, seaborn) for data mining, statistical inference and visualization. I developed a core module of a data product now generating six-figure revenue annually and collaborated in many others.

Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain

Sep 2008 – Oct 2013

Graduate Student researcher, Miguel Torres lab

ChIP-seq analysis of TALE proteins genome-wide binding sites. I used Python scripting and R programming to generate insights into a next-generation sequencing dataset of transcription factor binding in the mouse genome. I also performed experimental confirmation of the resulting conclusions, which were published in international peer-reviewed journals.

CBM Severo Ochoa, Madrid, Spain

Sep 2007 – Jun 2008

Laboratory Technician, Javier Díaz Nido lab

I carried out a pilot project to use human olfactory epithelium primary culture as a neurodegenerative disorder model system.

TEACHING

K School, Madrid, Spain

Feb 2018 – Present

Technical Director, Master in Data Science

I organize and ensure smooth running of the academic aspects of the Master's title in coordination with the Director. My responsibilities include:

- Tutoring participants with the development of their end-of-masters projects.
- Evaluating the result of those projects.
- Preparing the teaching tools and environment in advance of the course.
- Keep the AWS cluster in working order for the Distributed Computing part of the course.

K School, Madrid, Spain

Sep 2015 – Present

Lecturer, Master in Data Science

I have taught in KSchool's Masters title and the pre-masters Introduction to Programming since their first editions. I have taught the following subjects:

- Introduction to Programming for Data Science.
- Introduction to Statistics for Data Science.
- The Python Scientific Stack: pandas, numpy, matplotlib and more.
- Distributed Computing with Spark.
- Machine Learning with Spark.

BBVA, Madrid, Spain

Dec 2017

Instructor, Data Fundamentals course

I developed and taught an in-company training course for the Internal Auditing department of a multinational bank. The topics covered where:

- The Python Scientific Stack: pandas, numpy, and more.
- Data Visualization with Python.
- Introduction to Machine Learning with the sklearn library.
- Supervised and unsupervised Machine Learning.

PUBLICATIONS MARCOS, S., GONZALEZ-LAZARO, M., BECCARI, L., *et al* (2015). "Meis1 coordinates a network of genes implicated in eye development and microphthalmia" *Development* 142.17, pp. 3009–3020

LONGOBARDI, E., PENKOV, D., MATEOS, D., *et al* (2014). "Biochemistry of the tale transcription factors PREP, MEIS, and PBX in vertebrates" *Dev Dyn* 243.1, pp. 59–75

PENKOV, D., MATEOS SAN MARTIN D., FERNANDEZ-DIAZ L., *et al* (2013). "Analysis of the DNA-Binding Profile and Function of TALE Homeoproteins Reveals Their Specialization and Specific Interactions with Hox Genes/Proteins" *Cell Reports* 3.4, pp. 1321-1333

BASS, B. P., TANNER, E., MATEOS SAN MARTIN, D., *et al* (2009). "Cell-autonomous requirement for DNaseII in nonapoptotic cell death." *Cell Death Differ* 16.10, pp. 1362–1371

LANGUAGES Spanish – Native English – Full proficiency French – Elementary German – Elementary

SKILLS Scala – Python – SQL – Linux – R – Java – Latex – Statistics – Tableau – Machine Learning – Spark – Version Control (git) – Confocal Microscopy – Animal Models – Molecular Biology – Bioinformatics – NGS – Teaching

EDUCATION **Universidad Autónoma de Madrid**, Madrid, Spain Sep 2009 – Oct 2013
PhD, Molecular Biosciences
Graduated *Cum Laude*

Universidad Autónoma de Madrid, Madrid, Spain Sep 2008 – Sep 2009
MSc, Molecular Biology

Boston University, Boston, Massachussets Sep 2006 – Sep 2007
Student exchange on a full Scholarship. Full course load plus undergraduate research. GPA 4.0

Universidad Autónoma de Madrid, Madrid, Spain Sep 2002 – Sep 2007
BSc, Biochemistry

ACADEMIC HONORS & AWARDS Premio extraordinario de la Licenciatura en Bioquímica 2007
For extraordinary academic performance.

Dean's List, Boston University Sep 2006 – Jun 2007
For attaining a cumulative GPA of 4.0.

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