

Daniel Mateos San Martín

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LinkedIn profile

Personal Website

Personal e-commerce initiative

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SUMMARY Multidisciplinary maker and educator with skills in 3D design, printing, metalworking, electronics, programming, and education.

I have developed careers in the fields of biology, data science, and education. I am currently in transition to employment that uses my skills in electronics, metalworking and digital fabrication.

GENERAL **Horizontes Cercanos**, Madrid, Spain Apr 2023 – Present

EXPERIENCE Founder

We make custom miniature landscapes to decorate your home or to gift your loved ones.

Yogen, Madrid, Spain Jun 2017 – Present

Founder, Data Scientist

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

MBD Analytics, Alcobendas, Spain Feb 2021 – Aug 2023

Senior Data Scientist

Technical direction of Big Data projects implemented in 3 continents in the telecoms sector using cloud technologies (GCP, Spark, BigQuery). Responsible for upskilling junior Data Scientists to get them to proficiency in current Big Data, Data Science and software development methodologies.

K School, Madrid, Spain Feb 2018 – Sep 2023

Technical Director, Master in Data Science

Organize and ensure smooth running of the academic aspects of the Master's title in coordination with the Director. That involves evaluation of final projects, assistance to participants, and technical support for participants.

K School, Madrid, Spain Sep 2015 – Sep 2023

Lecturer, Master in Data Science

Teach data exploration and data mining, using the Python scientific stack and Spark for large scale data analysis to prospective Data Scientists. Prepared original class materials and exercises and deliver lectures in more than 30 editions to students that now work in every corner of the sector. Consistently rated above 90% by the participants in the anonymous feedback collected.

IE University, Madrid, Spain Sep 2020 – Feb 2022

Lecturer, Dual Bachelor's Degree in Business Administration and Data & Business Analytics

Developed the materials for and taught the Time Series courses in the Data & Business Administration curriculum using R as vehicular language

Universidad San Pablo CEU, Madrid, Spain Sep 2018 – Feb 2020

Lecturer, Bachelor's Degree in Biomedical Engineering and Master's Degree in Biomedical Engineering

Developed the materials for and taught the Bioinformatics-focused courses in the Biomedical Engineering curriculum, as well as the Numerical Methods and Algorithms and Data Structures courses, at both undergraduate and graduate levels.

CUNEF, Madrid, Spain Sep 2018 – Jun 2019

Lecturer, Master in Data Science

Taught Introduction to programming with Python at the Master's degree in Data Science.

Amadeus IT Group, Madrid, Spain Mar 2014 – Nov 2016

Data Scientist, Travel Intelligence Unit

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. 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. Used Python scripting and R programming to generate insights into a next-generation sequencing dataset of transcription factor binding in the mouse genome. 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
Carried out a pilot project to use human olfactory epithelium primary culture as a neurodegenerative disorder model system.

Self employed, Madrid, Spain Sep 1999 – Jun 2005
Private tutor
Private tutor for high school students in Science subjects: Mathematics, Physics, Chemistry and Biology.

TEACHING

IE University, Madrid, Spain Sep 2020 – Feb 2022
Lecturer, Dual Bachelor's Degree in Business Administration and Data & Business Analytics
Developed the materials for and taught the Time Series courses in the Data & Business Administration curriculum using R as vehicular language

- Time Series Analysis
- Forecasting Time Series

Universidad San Pablo CEU, Madrid, Spain Sep 2018 – Feb 2020
Lecturer, Bachelor's Degree in Biomedical Engineering and Master's Degree in Biomedical Engineering
Developed the materials for and teach the Bioinformatics-focused courses in the Biomedical Engineering curriculum, as well as the Numerical Methods and Algorithms and Data Structures courses. Teach at both undergraduate and graduate levels.

- Bioinformatics, Bachelor's Degree in Biomedical Engineering
- Systems Biology, Bachelor's Degree in Biomedical Engineering
- Numerical Methods, Bachelor's Degree in Biomedical Engineering
- Algorithms and Data Structures, Bachelor's Degree in Biomedical Engineering
- Big Data for Biomedicine, Master's Degree in Biomedical Engineering
- Analysis of Genetic Data, Master's Degree in Biomedical Engineering

CUNEF, Madrid, Spain Sep 2018 – Present
Lecturer, Master in Data Science
Taught Introduction to programming with Python at the Master's degree in Data Science.

K School, Madrid, Spain Feb 2018 – Sep 2023
Technical Director, Master in Data Science
Organize and ensure smooth running of the academic aspects of the Master's title in coordination with the Director. 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.
- Providing technical support for participants.
- Keeping the AWS cluster in working order for the Distributed Computing part of the course.

K School, Madrid, Spain Sep 2015 – Sep 2023
Lecturer, Master in Data Science
Taught in KSchool's Masters title and the pre-masters Introduction to Programming since their first editions. Taught the following subjects:

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

Instructor, Data Fundamentals course

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.
- Supervised and unsupervised Machine Learning.
- Introduction to Machine Learning with the sklearn library.

PUBLICATIONS	<p>MARCOS, S., GONZALEZ-LAZARO, M., BECCARI, L., <i>et al</i> (2015). “Meis1 coordinates a network of genes implicated in eye development and microphthalmia” <i>Development</i> 142.17, pp. 3009–3020</p> <p>LONGOBARDI, E., PENKOV, D., MATEOS, D., <i>et al</i> (2014). “Biochemistry of the tale transcription factors PREP, MEIS, and PBX in vertebrates” <i>Dev Dyn</i> 243.1, pp. 59–75</p> <p>MATEOS SAN MARTIN D., PENKOV, D., FERNANDEZ-DIAZ L., <i>et al</i> (2013). “Analysis of the DNA-Binding Profile and Function of TALE Homeoproteins Reveals Their Specialization and Specific Interactions with Hox Genes/Proteins” <i>Cell Reports</i> 3.4, pp. 1321-1333</p> <p>BASS, B. P., TANNER, E., MATEOS SAN MARTIN, D., <i>et al</i> (2009). “Cell-autonomous requirement for DNaseII in nonapoptotic cell death.” <i>Cell Death Differ</i> 16.10, pp. 1362–1371</p>
LANGUAGES	<p>Spanish – Native English – Full proficiency French – Intermediate German – Elementary</p>
SKILLS	<p>Rapid Prototyping – CNC Manufacturing – Laser Cutting – Rhino 3D – Parametric Design – Brazing – TIG Welding – Molding and Casting – 3D Modeling – 3D Printing – Electronics Design – Arduino – Scala – Python – SQL – Linux – R – Java – Big Data – Latex – Excel – Statistics – Tableau – Machine Learning – Spark – Version Control (git) – Confocal Microscopy – Animal Models – Molecular Biology – Bioinformatics – NGS – Teaching – Research – Cloud Computing</p>
EDUCATION	<p>Fab Academy Jan 2024 – Jun 2024 Postgraduate degree in digital fabrication and design.</p> <p>Universidad Autónoma de Madrid, Madrid, Spain Sep 2009 – Oct 2013 PhD, Molecular Biosciences Graduated <i>Cum Laude</i></p> <p>Universidad Autónoma de Madrid, Madrid, Spain Sep 2008 – Sep 2009 MsC, Molecular Biology</p> <p>Boston University, Boston, Massachussets Sep 2006 – Sep 2007 Student exchange on a full Scholarship. Full course load plus undergraduate research.</p> <p>Universidad Autónoma de Madrid, Madrid, Spain Sep 2002 – Sep 2007 BSc, Biochemistry</p>
ACADEMIC HONORS & AWARDS	<p>Premio extraordinario de la Licenciatura en Bioquímica 2007 For extraordinary academic performance.</p> <p>Dean’s List, Boston University Sep 2006 – Jun 2007 For attaining a cumulative GPA of 4.0.</p>