

ÁLVARO TOMÁS GIL

Data Scientist

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EDUCATION

Master in Business Analytics and Big Data

IE University

September 2020 – July 2021 Madrid

Master's Degree in Aeronautical Engineering

Universitat Politècnica de València - University of Illinois at Urbana-Champaign

September 2018 – May 2020

- Completed with an average grade of 9.3/10
- Specialization in Motor Performance Analysis
- Year-long stay in Urbana-Champaign after being awarded the PROMOE Scholarship by Banco Santander

Bachelor's Degree in Aerospace Engineering

Universitat Politècnica de València - Technische Universität München

September 2014 – June 2018

- Completed Degree with an average grade of 8.7/10
- Specialization in Aircraft Technology
- Part of the High Performance Group (A.R.A)
- Fully carried out in English
- Year-long stay in Munich through the Erasmus program

High School Diploma

American School of Valencia

September 2010 – June 2014

- Completed Spanish Baccalaureate with an average grade of 9.7/10
- Awarded Salutatorian

RECENT PROJECTS

Topological and temporal analysis of particle clusters in turbulent flows using density-based clustering algorithms

University of Illinois at Urbana-Champaign

January 2020 – August 2020

- Applied machine learning techniques to the identification and tracking of clusters in turbulent particle-laden flows.
- Explored the usage of Deep Q Learning with Pytorch for the topological skeletonization of particle clusters.
- Developed communication and organizational skills by working remotely during the lockdown.

Exploration of Smoothed-Particle Techniques for the Simulation of Floating Bodies

Technische Universität München

March 2018 – August 2018

- Developed a two-dimensional SPH solver using Matlab.
- Validated its simulation of a floating block with existing commercial SPH software.

ABOUT ME

Diligent, curious student with capacity of working and learning autonomously, at the same time thriving in group work. Eager to shift my career's focus onto the vibrant world of Data Science.

LANGUAGES

Spanish	●●●●●
English	●●●●●
German	●●●●●
French	●●●●●
Valencian	●●●●●

IT SKILLS

Python	Pytorch	Matlab	LaTex
SAS	ROS	Wolfram Mathematica	
Microsoft Office	STAR-CCM+		
GasTurb	Ansys	Fluent	

ADDITIONAL INFORMATION

- Participated in EY Nextwave Data Science Competition 2019
- Licensed Driver
- Willing to travel/relocate for professional reasons
- Interests: Data Science, Sailing, Sculpture, Golf
- Licensed Capitán de Yate