Jose Luis Dorado Ladera

Personal Statement

I graduated in Mathematics with a minor in Computer Science in 2018. After finishing my Mathematics degree, I moved to the UK where I joined a research project at Cardiff University.

That project was a collaboration with Airbus, and its ultimate goal is to optimize the jig twist of an aircraft wing. The first part of my work was to model data provided by Airbus, and the first theoretical chapter of my thesis explains the regression problem from the learning theory point of view. The second part of my work was to tackle an inverse design problem using MCMC sampling and metaheuristics. The second theoretical chapter of my thesis explains the theory of the aforementioned methods, and gives a novel framework for design optimization.

During the pandemic, I came back to Barcelona where I wanted to pursue an academic career. I have been working as a maths and computer science teacher ever since, and I have got a permanent public job. However, my career plans have changed. I am not pursuing an academic career anymore and, therefore, I do not find a meaning for my current job.

I recently finished an intensive bootcamp in Data Analytics at Ironhack to complement my academic knowledge with relevant technolgies and tools. I am willing to leave my job to join a company where I can apply the knowledge I adquired during my research and my strong background in Mathematics and Computer Science to Data Science projects.

Contact

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https://github.com/Jose-dola

Personal Webpage and Portfolio: https://jose-dola.github.io/

https://www.linkedin.com/in/jose-luis-dorado-ladera/

Languages

English, Spanish and Catalan

Interests

Linux Photography Guitar
Epic fantasy books Cycling

Education

- **Data Analytics Bootcamp.**
  IronHack Barcelona. 2023.

- **Master of Philosophy in Engineering.**
  School of Engineering, Cardiff University. 2019-2021.
  Fields: Machine Learning and Uncertainty Quantification.
  Thesis title: Learning theory & Gaussian Process Regression for surrogate modeling, and a novel framework for Design Optimization under uncertainty. Application to an early-stage aircraft wing design.
  Thesis: `http://orca.cf.ac.uk/141807/`
  Industrial Partner: AIRBUS.
  Conferences as speaker: UNCECOMP 2019 (Crete, Greece), DIPART 2019 (Bristol, UK).

- **Bachelor's degree in Mathematics.**
  School of Mathematics, University of Barcelona. 2012-2018.
  Minor: Computer Science.
  Grade: Average grade 7.7/10 and four subjects with high distinction:
  - Modelling (both stochastic modelling and deterministic modelling).
  - Algorithms.
  - Operating Systems II.
  - TNUI (new uses of computer science, especially Data Science).

  Final Degree Project: `http://hdl.handle.net/2445/125692`

Other education

- Master's degree in Teaching.
  Autonomous University of Barcelona. 2021-2022.

- Bachelor's degree in CAFE.
  University of Lleida, 2007-2012.

- coursera
  DeepLearning.AI TensorFlow Developer Specialization, 2020.
  Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning.
  Convolutional Neural Networks in TensorFlow.
  Natural Language Processing in TensorFlow.
  Sequences, Time Series and Prediction.
  Introduction to Deep Learning & Neural Networks with Keras by IBM, 2020.

Jobs

- Higher Education Computer Science teacher.
  Serveis territorials del Baix Llobregat, 2021-present.

- MPhil researcher (EPSRC funding).
  University demonstrator (Solid Mechanics Module).
  University teacher (Finite Elements Module).
  Cardiff University. AIRBUS (Industrial partner), 2019-2020.

- Jobs before and during my two bacherlor's degrees.
  Fitness Trainer jobs between 2006 and 2015 in different sport centres in Catalonia, such as DiR and Vall d'Hebron Sports Centre. CNC lathe worker, Alpevi, 2006. Commercial staff, Progedsa, 2005.

Programming languages and related skills

●●●●○	Python (Numpy/Pandas/etc.)	●●●●○	SQL
●●●●○	PyTorch/TensorFlow	●●●○○	Request lib.
●●●●○	Visualization: Matplotlib/Tableau	●●●●●	Linux/Bash
●●●●○	C/C++	●●●○○	Java
●●●●●	LaTeX		