Javier Antorán

Personal Data

Place and Date of Birth:	Zaragoza, Spain	20 May 1996
Native Languages:	English, Spanish
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Education

Sept. 2022
Oct. 2019
University of Cambridge, Darwin College, Cambridge
PhD in Advanced Machine Learning
Supervisor: José Miguel Hernández-Lobato | Funded by Microsoft Research

Sept. 2019
Oct. 2018
University of Cambridge, Darwin College, Cambridge
MPhil in Machine Learning and Machine Intelligence, Graduate degree
Graduated with Distinction | Class rank: *1*

June 2018
Sept. 2017
Technical University of Denmark - DTU, Copenhagen
Telecommunications Engineering, Erasmus+ program | Gpa: 12/12

June 2018
Sept. 2014
Universidad de Zaragoza, Zaragoza
Telecommunications Engineering (EE/CS), Undergraduate degree
240 ECTS | Gpa: 9/10, Awarded Extraordinary Distinction | Class rank: *1*
Degree student delegate | Counsellor for freshmen

Experience

Ongoing
June 2018

Machine Learning Freelance Consulting, Zaragoza

I deploy AI solutions to help my clients leverage their data to make better business decisions at an operational level. I work with clients within the retail, agriculture, education and industrial sectors.

Ongoing
June 2018

Co-Founder and Scientific Advisor, ARISE, Zaragoza
Agricultural Process Optimisation with Artificial Intelligence

ARISE deploys data sensing, monitoring and visualisation infrastructure in agricultural settings. We use the collected data to optimise processes, reducing resource consumption and maximising production. More info: arisetech.es

Sept. 2018
July 2018

Telecommunications Engineering Student, CERN, Geneva
Software Engineering for the ATLAS Data Acquisition (DAQ) group

Developed a full-scale integration testing tool which coordinated execution of the ATLAS experiment's DAQ chain. The project was built in python. Applied ML to detect issues in the DAQ. Member of the Inter-experimental Machine Learning workgroup (IML).

Aug. 2017
June 2017

Intern at Graphics Lab, Universidad de Zaragoza, Zaragoza
Researching Neural Networks for Depth Imaging Applications

Designed convolutional autoencoders with skip connections to correct multipath interference in time of flight lidar depth images.

Publications and Technical Reports

Jan. 2020	**J. Antoran**, U. Bhatt, T. Adel, A. Weller, J.M. Hernández-Lobato. Getting a CLUE: A Method for Explaining Uncertainty Estimates. *Under Review*
Jan. 2020	**J. Antoran**, J.U. Allingham, J.M. Hernández-Lobato. Variational Depth Search in ResNets. ICLR 2020 NAS workshop, Addis Ababa, Ethiopia
Mar. 2019	**J. Antoran** and E. Markou. Uncertainty in Bayesian Neural Networks. *Workshop on The Mathematics of Deep Learning and Data Science, 2019, Cambridge, UK*
Jan. 2019	**J. Antoran** and A. Miguel. Disentangling and Learning Robust Representations with Natural Clustering. *IEEE ICMLA 2019, Boca Ratón, Florida, USA*
Sep. 2018	**J. Antoran Cabiscol**. CERN FELIX DAQ Integration Test Tool. *CERN-STUDENTS-Note-2018-147*, cds.cern.ch/record/2639275

Volunteering, Projects and Awards

Feb. 2020	International Conference on Macchine Learning (ICML) 2020 *Paper Reviewer*
July 2018 Jan. 2016	IEEE ESNOX1 Cube Satellite, Zaragoza *Electromagnetic sensor module design* Worked as part of the team that was building the satellite. Designed and built Helmholtz Coils. Used them to calibrate the HMC5883 electromagnetic sensor for the satellite.
Mar. 2018	Adidas Hackathon Winner (1st Place), Zaragoza *Machine Learning Challenge* Used semantic segmentation to find clothes in pictures. Used a latent representation of these clothes in an infoGAN to generate new clothes designs tailored to each user's style.
June 2017 Feb. 2015	IEEE Student Branch Chairman, Zaragoza Represented the IEEE Student Branch and organised projects related to Machine Learning, drones, 3D printing, electronics and hydroponics. Co-founder of the *'IEEE Days'* yearly event in which we hosted a series of workshops and distinguished speakers.
Mar. 2017	Ucode Hackathon Winner (1st Place), Zaragoza *Everis Computer Vision Challenge* Deployed face and object detection and tracking software with Python, OpenCV and Tensorflow. The project consisted of a web-based video analysis application.

Talks and Workshops

Dec. 2019	Disentangling and Learning Robust Representations with Natural Clustering *Oral presentation at ICMLA 2019, Boca Raton, Florida, USA*
Sept. 2019	Bayesian Methods in Deep Learning. *Talk given to the Robotics and perception group at University of Zaragoza*
Apr. 2018	Demystifying Artificial Intelligence, What does it mean for Democracy? *Conference on IA and Democracy, Faculty of Law, University of Zaragoza*
Mar. 2017	Design your own Audio Amplifier. *Electronics workshop with the IEEE student branch at the University of Zaragoza*