Daniel **Barrejón**

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Positions		
	University of Amsterdam *Visiting Researcher*: Amsterdam Machine Learning Lab (AMLab) Supervisor: Dr. Eric Nalisnick	Mar. 2022 - Jul. 2022
	Universidad Carlos III de Madrid *Research Intern (Graduate)*: Group of Multimedia Processing Research field: *Computer Vision.*	Oct. 2018 - Sept. 2019
	Universidad Carlos III de Madrid *Research Intern (Undergraduate)*: Signal Theory and Communications. Research field: *Bayesian Statistics for Signal Processing.*	Sept. 2017 - Feb. 2018

Education		
	Universidad Carlos III de Madrid PhD student in Machine Learning. Advisors: Dr. Pablo M. Olmos and Dr. Antonio Artés.	Sept. 2019 - Present
	Universidad Carlos III de Madrid M.Sc. in Multimedia and Communications.	Sep. 2018 - Sept. 2019
	Technische Universität München Program: *M.Sc. in Elektrotechnik und Informationstechnik.* Erasmus Scholarship.	Oct. 2016 - Aug. 2017
	Universidad Carlos III de Madrid B.Sc. in Telecommunications Technologies Engineering.	Sept. 2014 - Sept. 2018

Teaching		
	Universidad Carlos III de Madrid	
	T.A in Neural Networks (Bsc. in Data Science and Eng.)	2023
	T.A in Machine Learning in Health (Bsc. in Data Science and Eng.)	2022
	T.A in Systems and Signals (Bsc. in Biomedical Eng.)	2021, 2022
	T.A in Linear Systems (Bsc. in Telecommunications Eng.)	2021
	BBVA and Fundación Universidad Carlos III de Madrid	
	T.A in Advanced Machine Learning	2023
	T.A in Machine Learning Fundamentals	2021, 2022, 2023
	T.A in Natural Language Processing	2021, 2022, 2023

Projects		
	Deep-DARWiN Domain Alignment and Data Wrangling with Deep Generative Models.	Sept. 2019 - Present
	Real-time highway object detection Computer vision project using Deep Learning.	Oct. 2018 - Sept. 2019
	Detection of behavioural changes in psychiatric patients. Daniel Barrejón. *B.Sc. Thesis Dissertion*	Sep. 2017 - Oct. 2018

Summer schools		
	Gaussian Process Summer School (GPSS), University of Sheffield.	2020, 2021
	Nordic Probabilistic AI School (ProbAi), Norwegian Open AI Lab	2021
	Eastern European Machine Learning Summer School (EEML)	2021
	Machine Learning Frontiers in Precision Medicine (MLFPM).	2019, 2020

Publications

*Co-first authors. Order determined by coin flip.

Journals

<u>D.Barrejón</u>, Pablo M. Olmos, A.Artés-Rodríguez
Medical data wrangling with sequential variational autoencoders
In IEEE Journal of Biomedical and Health Informatics, 2021.

Peer-review Conferences

R. Verma*, <u>D.Barrejón</u>*, E. Nalisnick
Learning to Defer to Multiple Experts: Consistent Surrogate Losses, Confidence Calibration, and Conformal Ensembles
Artificial Intelligent and Statistics (AISTATS), 2023.

R. Verma, <u>D.Barrejón</u>, E. Nalisnick
On the Calibration of Learning to Defer to Multiple Experts
In ICML 2022 Workshop on Human-Machine Collaboration and Teaming, 2022.

<u>D.Barrejón</u>, Pablo M. Olmos, A.Artés-Rodríguez, **Temporal-hierarchical VAE for Heterogenous and Missing Data Handling**, Bayesian Deep Learning workshop @NeurIPS 2020, Poster presentation

Reviewing

Artificial Intelligence and Statistics (AISTATS)	2023
Multimodal Representation Learning (MLR) Workshop @ ICLR	2023
I can't believe it's not better (ICBINB) Workshop @ NeurIPS	2022

Grants & Prizes

Top 10% reviewer in *Artificial Intelligence and Statistics (AISTATS)*	2023
FPU Grant to fund doctoral Studies, Spanish Ministry of Education	2020

Courses

Generative Adversarial Networks Specialization [*deeplearning.ai*]	<u>Course Certificate</u>
Deep Learning Specialization [*deeplearning.ai*]	<u>Course Certificate</u>

Volunteering

Volunteer and attendant in *Artificial Intelligence and Statistics (AISTATS)*	2021, 2022
Tutor for Linear Algebra in Universidad Carlos III de Madrid	2018
Let's be friends with books: Erasmus + project in Iğdır, Turkey (19 Apr.- 26 Apr.)	2017

Languages

Spanish: Mother tongue.
English: Advanced User C1.
French: Upper Intermediate User B2.
German: Intermediate User B1.

Computer Skills

Python, Matlab, Java, C, Latex.
DL Frameworks: Pytorch, Tensorflow, Keras.
Others: OpenCV, Git, Inkscape, Logic Pro X, Ableton Live.

References

Dr. Pablo. M. Olmos, Universidad Carlos III de Madrid.
Dr. Antonio Artés-Rodríguez, Universidad Carlos III de Madrid.
Dr. Eric Nalisnick, University of Amsterdam.