

Daniel Barrejón

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Positions

University of Amsterdam <i>Visiting Researcher</i> : Amsterdam Machine Learning Lab (AMLab) Supervisor: Dr. Eric Nalisnick	Mar. 2022 - Jul. 2022
Fundación UC3M <i>Course Instructor</i> Fundamentals, Advanced Machine Learning and Natural Language Processing courses for BBVA employees.	Dec. 2020 - Present
Universidad Carlos III de Madrid <i>Research Intern (Graduate)</i> : Group of Multimedia Processing Research field: <i>Computer Vision</i> .	Oct. 2018 - Sept. 2019
Universidad Carlos III de Madrid <i>Research Intern (Undergraduate)</i> : Signal Theory and Communications. Research field: <i>Bayesian Statistics for Signal Processing</i> .	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: <i>M.Sc. in Elektrotechnik und Informationstechnik</i> . 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 <i>T.A</i> in Neural Networks (Bsc. in Data Science and Eng.)	2023
<i>T.A</i> in Machine Learning in Health (Bsc. in Data Science and Eng.)	2022
<i>T.A</i> in Systems and Signals (Bsc. in Biomedical Eng.)	2021, 2022
<i>T.A</i> in Linear Systems (Bsc. in Telecommunications Eng.)	2021
BBVA and Fundación Universidad Carlos III de Madrid <i>T.A</i> in Advanced Machine Learning	2023
<i>T.A</i> in Machine Learning Fundamentals	2021, 2022, 2023
<i>T.A</i> in Natural Language Processing	2021, 2022, 2023

Projects

Deep-DARWiN Domain Alignment and Data Wrangling with Deep Generative Models.	Sept. 2019 - Sept. 2021
Real-time highway object detection Computer vision project using Deep Learning.	Oct. 2018 - Sept. 2019
Detection of behavioural changes in psychiatric patients. Daniel Barrejón. <i>B.Sc. Thesis Dissertation</i>	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

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 <i>In IEEE Journal of Biomedical and Health Informatics, 2021.</i>	
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 <i>Artificial Intelligent and Statistics (AISTATS), 2023.</i> R. Verma, <u>D.Barrejón</u> , E. Nalisnick On the Calibration of Learning to Defer to Multiple Experts <i>In ICML 2022 Workshop on Human-Machine Collaboration and Teaming, 2022.</i> <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	Neural Information Processing Systems (NeurIPS) Advances in Approximate Bayesian Inference (AABI) @ ICML International Conference on Machine Learning (ICML) Artificial Intelligence and Statistics (AISTATS) Multimodal Representation Learning (MLR) Workshop @ ICLR I can't believe it's not better (ICBINB) Workshop @ NeurIPS	2023 2023 2023 2023 2023 2022
Grants & Prizes	Top 10% reviewer in <i>Artificial Intelligence and Statistics (AISTATS)</i> FPU Grant to fund doctoral Studies, Spanish Ministry of Education	2023 2020
Volunteering	Volunteer and attendant in <i>Artificial Intelligence and Statistics (AISTATS)</i> Tutor for Linear Algebra in Universidad Carlos III de Madrid <i>Let's be friends with books</i> : Erasmus + project in Iğdır, Turkey (19 Apr.- 26 Apr.)	2021, 2022 2018 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.	