

# Daniel Barrejón

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## Positions

<b>University of Amsterdam</b> <i>Visiting Researcher</i> : Amsterdam Machine Learning Lab (AMLab) Supervisor: Dr. Eric Nalisnick	Mar. 2022 - Jul. 2022
<b>Fundación UC3M</b> <i>Course Instructor</i> Fundamentals, Advanced Machine Learning and Natural Language Processing courses for BBVA employees.	Dec. 2020 - Present
<b>Universidad Carlos III de Madrid</b> <i>Research Intern (Graduate)</i> : Group of Multimedia Processing Research field: <i>Computer Vision</i> .	Oct. 2018 - Sept. 2019
<b>Universidad Carlos III de Madrid</b> <i>Research Intern (Undergraduate)</i> : Signal Theory and Communications. Research field: <i>Bayesian Statistics for Signal Processing</i> .	Sept. 2017 - Feb. 2018

## Education

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

## Teaching

<b>Universidad Carlos III de Madrid</b> <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
<b>BBVA and Fundación Universidad Carlos III de Madrid</b> <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

<b>Deep-DARWiN</b> Domain Alignment and Data Wrangling with Deep Generative Models.	Sept. 2019 - Sept. 2021
<b>Real-time highway object detection</b> Computer vision project using Deep Learning.	Oct. 2018 - Sept. 2019
<b>Detection of behavioural changes in psychiatric patients.</b> Daniel Barrejón. <i>B.Sc. Thesis Dissertation</i>	Sep. 2017 - Oct. 2018

Summer schools	<b>Gaussian Process Summer School</b> (GPSS), University of Sheffield. <b>Nordic Probabilistic AI School</b> (ProbAi), Norwegian Open AI Lab <b>Eastern European Machine Learning Summer School</b> (EEML) <b>Machine Learning Frontiers in Precision Medicine</b> (MLFPM).	2020, 2021 2021 2021 2019, 2020
Publications	*Co-first authors. Order determined by coin flip.	
Journals	D.Barrejón, Pablo M. Olmos, A.Artés-Rodríguez <b>Medical data wrangling with sequential variational autoencoders</b> <i>In IEEE Journal of Biomedical and Health Informatics, 2021.</i>	
Peer-review Conferences	R. Verma*, D.Barrejón*, E. Nalisnick <b>Learning to Defer to Multiple Experts: Consistent Surrogate Losses, Confidence Calibration, and Conformal Ensembles</b> <i>Artificial Intelligent and Statistics (AISTATS), 2023.</i>  R. Verma, D.Barrejón, E. Nalisnick <b>On the Calibration of Learning to Defer to Multiple Experts</b> <i>In ICML 2022 Workshop on Human-Machine Collaboration and Teaming, 2022.</i>  D.Barrejón, Pablo M. Olmos, A.Artés-Rodríguez, <b>Temporal-hierarchical VAE for Heterogenous and Missing Data Handling</b> , Bayesian Deep Learning workshop @NeurIPS 2020, Poster presentation	
Reviewing	International Conference on Learning Representations (ICLR) Neural Information Processing Systems (NeurIPS) International Conference on Machine Learning (ICML) Artificial Intelligence and Statistics (AISTATS) Advances in Approximate Bayesian Inference (AABI) @ ICML Structured Probabilistic Inference & Generative Modeling (SPIGM) @ ICML Multimodal Representation Learning (MLR) Workshop @ ICLR I can't believe it's not better (ICBINB) Workshop @ NeurIPS	2024 2023 2023 2023 2023 2023 2023 2022
Grants & Prizes	<b>Top 10% reviewer</b> in <i>Artificial Intelligence and Statistics (AISTATS)</i> <b>Research Visit Grant</b> , Universidad Carlos III de Madrid <b>FPU Grant</b> to fund doctoral Studies, Spanish Ministry of Education	2023 2022 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	<b>Spanish</b> : Mother tongue. <b>English</b> : Advanced User C1. <b>French</b> : Upper Intermediate User B2. <b>German</b> : Intermediate User B1.	
Computer Skills	Python, Matlab, Java, C, Latex. <b>DL Frameworks</b> : Pytorch, Tensorflow, Keras. <b>Others</b> : 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.	