

# Daniel Barrejón

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## Positions

<b>Universidad Carlos III de Madrid</b> <i>Postdoc Researcher</i> Supervisor: Dr. Pablo M. Olmos	Oct. 2023 - present
<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 in Machine Learning. Advisors: Dr. Pablo M. Olmos and Dr. Antonio Artés.	Sept. 2019 - Oct. 2023
<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*, <u>D.Barrejón</u> *, 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, <u>D.Barrejón</u> , 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>  <u>D.Barrejón</u> , 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) XAI in Action: Past, Present and Future Workshop @NeurIPS Deep Generative Models for Health Workshop @NeurIPS 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 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.	