

Daniel Barrejón

Universidad Carlos III de Madrid
Dpt. of Signal Theory and Communications
Avda. de la Universidad 30
Leganés, Madrid 28911

Date Birth: 13th July 1996
daniel.barrejon@uc3m.es
Lab 4.3.B01
LinkedIn: [in](#)
Github: [G](#)
Phone: +(34) 916248839
Personal Web: [H](#)

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 - Oct. 2023
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>	Sept. 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 <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	International Conference on Learning Representations (ICLR) 2024 XAI in Action: Past, Present and Future Workshop @NeurIPS 2023 Deep Generative Models for Health Workshop @NeurIPS 2023 Neural Information Processing Systems (NeurIPS) 2023 International Conference on Machine Learning (ICML) 2023 Artificial Intelligence and Statistics (AISTATS) 2023 Advances in Approximate Bayesian Inference (AABI) @ ICML 2023 Structured Probabilistic Inference & Generative Modeling (SPIGM) @ ICML 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 <i>Artificial Intelligence and Statistics (AISTATS)</i> 2023 Research Visit Grant , Universidad Carlos III de Madrid 2022 FPU Grant to fund doctoral Studies, Spanish Ministry of Education 2020
Volunteering	Volunteer and attendant in <i>Artificial Intelligence and Statistics (AISTATS)</i> 2021, 2022 Tutor for Linear Algebra in Universidad Carlos III de Madrid 2018 <i>Let's be friends with books</i> : 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.