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Soft Skills

<b>Teaching Assistant and Research Personnel</b> , <i>Autonomous University of Madrid</i> Ph.D. student with Daniel Hernández Lobato as Supervisor.  Teaching Python programming fundamentals and finite automata/Turing machines subjects.	12/2021 - Present
Visitor Researcher, University of Cambridge Research on Uncertainty Estimation on Large Language Models with José Miguel Hernández Lobato.	09/2023 - 12/2023
Research Assistant, <i>University of Almería</i> Worked with Andrés R. Masegosa studing the effect of diversity on Deep Neural Network ensembles.	02/2021 - 12/2021
Publications	
PAC-Chernoff Bounds: Understanding Generalization in the Interpolation Regime Andrés R. Masegosa and Luis A. Ortega	JAIR 2025 [PDF] [Code]
PAC-Bayes-Chernoff Bounds for Unbounded Losses loar Casado, Luis A. Ortega, Aritz Pérez and Andrés R. Masegosa	NeurIPS 2024 [PDF]
Variational Linearized Laplace Approximation for Bayesian Deep Learning Luis A. Ortega, Simón Rodríguez-Santana and Daniel Hernández-Lobato	ICML 2024 [PDF] [Code]
The Cold Posterior Effect Indicates Underfitting Yijie Zhang, Yi-Shan Wu, Luis A. Ortega and Andrés R. Masegosa	TMLR 2024 [PDF] [Code]
Deep Variational Implicit Processes  Luis A. Ortega, Simón Rodríguez-Santana and Daniel Hernández-Lobato	ICLR 2023 [PDF] [Code]
Diversity and Generalization in Neural Network Ensembles Luis A. Ortega, Rafael Cabañas and Andrés R. Masegosa	AISTATS 2022 [PDF] [Code]
Ongoing Research	
Fixed-Mean Gaussian Processes for ad-hoc Bayesian Deep Learning (under review) Converting models to Bayesian by creating a Gaussian Process with fixed predictive mean to that model.	[Draft]
Education	
Ph.D. Student, Autonomous University of Madrid	11/2021 - 11/2025
Thesis: Uncertainty Estimation and GeneralizationBounds for Modern Deep Learning  B.S. in Physics, National Distance Education University	2024 - 202X
M.S. in Data Science, Autonomous University of Madrid Master Thesis: Deep Variational Implicit Processes	2020 – 2022
B.S. in Computer Science, University of Granada	2015 – 2020
B.S. in Mathematics, University of Granada	2015 – 2020
Honors & Awards	
Granted Santander-UAM Scholarship. Uncertainty Estimation in LLM at Cambridge University of Cambridge University of Cambridge	•
Granted FPI-UAM Scholarship. Competitive Predoctoral Contract for Training Research P Department of Computer Science, Autonomous University of Madrid	Personnel 2021
Research Collaboration Scholarship Department of Computer Science, Autonomous University of Madrid	2020
Granted Highest Mark on Bachelor's Thesis, 10/10. Statistical Models with Variational Models and Faculty of Science, University of Granada	ethods 2020
Open Source Contributions	
AlexImmer/Laplace   ★441 Implemented Functional (GP) Laplace, working on implementing Variational (Valla) and Nyström (ELLA) variants	2024 ts.
libreim/apuntesDGIIM   ★79  Divulgation group destinated to the double degree in computer science and mathematics, Granada.	2017
Skills	
Technical Python, C++, PyTorch, TensorFlow, Keras and JAX (little)	

Quick learner, Multi-tasking, Cooperative and Collaborative