Luis A. Ortega □ luis.ortega@uam.es • ⊕ ludvins.github.io • in ludvins • ⊕ ludvins

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Soft Skills

Teaching Assistant and Research Personnel, Autonomous University of Madrid Ph.D. student with Daniel Hernández Lobato as Supervisor.	12/2021 - Present	
Teaching Python programming fundamentals and finite automata/Turing machines subjects.		
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 & ECAI 2025 [PDF] [Code]	
PAC-Bayes-Chernoff Bounds for Unbounded Losses Ioar Casado, Luis A. Ortega, Aritz Pérez and Andrés R. Masegosa	NeurIPS 2024 [PDF]	
Variational Linearized Laplace Approximation for Bayesian Deep Learning	ICML 2024	
Luis A. Ortega, Simón Rodríguez-Santana and Daniel Hernández-Lobato	[PDF] [Code]	
The Cold Posterior Effect Indicates Underfitting	TMLR 2024	
Yijie Zhang, Yi-Shan Wu, Luis A. Ortega and Andrés R. Masegosa	[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 Thesis: Uncertainty Estimation and Generalization Bounds for Modern Deep Learning	11/2021 - 11/2025	
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, <i>University of Granada</i>	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	ersity. 2023	
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 M Department of Computer Science and Faculty of Science, University of Granada	lethods 2020	
Open Source Contributions		
AlexImmer/Laplace ★441 Implemented Functional (GP) Laplace, working on implementing Variational (Valla) and Nyström (ELLA) varian	2024	
libreim/apuntesDGIIM ★79 Divulgation group destinated to the double degree in computer science and mathematics, Granada.		
Skills		
Technical Python, C++, PyTorch, TensorFlow, Keras and JAX (little)		

Quick learner, Multi-tasking, Cooperative and Collaborative