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

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Soft Skills

Teaching Assistant and Research Personnel , <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 Thesis: Uncertainty Estimation and Generalization Bounds for Modern Deep Learning	11/2021 - 11/2025
B.S. in Physics, National Distance Education University M.S. in Data Science, Autonomous University of Madrid Master Thesis: Deep Variational Implicit Processes B.S. in Computer Science, University of Granada	2024 - 202X 2020 - 2022 2015 - 2020
B.S. in Mathematics, University of Granada	2015 – 2020
Honors & Awards	
Granted Santander-UAM Scholarship. Uncertainty Estimation in LLM at Cambridge Universed Computational and Biological Learning Lab, University of Cambridge	sity. 2023
Granted FPI-UAM Scholarship. Competitive Predoctoral Contract for Training Research Personnel Department of Computer Science, Autonomous University of Madrid	
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 Media Department of Computer Science and Faculty of Science, University of Granada	thods 2020
Open Source Contributions	
AlexImmer/Laplace ★441 Implemented Functional (GP) Laplace, working on implementing Variational (Valla) and Nyström (ELLA) variants.	
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