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Experience

Experience	
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 – Pres
Visitor Researcher, University of Cambridge Research on Uncertainty Estimation on Large Language Models with José Miguel Hernández Lobato.	09/2023 - 12/20
Research Assistant, <i>University of Almería</i> Worked with Andrés R. Masegosa studing the effect of diversity on Deep Neural Network ensembles.	02/2021 - 12/20
Publications	
Variational Linearized Laplace Approximation for Bayesian Deep Learning Luis A. Ortega, Simón Rodríguez-Santana and Daniel Hernández-Lobato	ICML 20 [PDF] [Co
The Cold Posterior Effect Indicates Underfitting	TMLR 20
Yijie Zhang, Yi-Shan Wu, Luis A. Ortega and Andrés R. Masegosa	[PDF] [Co
Deep Variational Implicit Processes	ICLR 20
Luis A. Ortega, Simón Rodríguez-Santana and Daniel Hernández-Lobato	[PDF] [Co
Diversity and Generalization in Neural Network Ensembles Luis A. Ortega, Rafael Cabañas and Andrés R. Masegosa	AISTATS 20 [PDF] [Co
Ongoing Research PAC-Chernoff Bounds: Understanding Generalization in the Interpolation Regime (under receptaining deep learning techniques (weight-decay, overparameterization, data-augmentation) using Large Deviation	
PAC-Bayes-Chernoff Bounds for Unbounded Losses (under review) PAC-Bayes version of the Chernoff bound which solves the open problem of optimizing the free parameter on many	[Dra
Fixed-Mean Gaussian Processes for ad-hoc Bayesian Deep Learning Converting models to Bayesian by creating a Gaussian Process with fixed predictive mean to that model.	,
Education	
Ph.D. Student , Autonomous University of Madrid Thesis: Variational Inference for Bayesian Deep Learning	11/2021 - 11/20
M.S. in Data Science, Autonomous University of Madrid Master Thesis: Deep Variational Implicit Processes	2020 – 20
B.S. in Computer Science, University of Granada	2015 – 20
B.S. in Mathematics, University of Granada	2015 – 20
Honors & Awards	
Granted Santander-UAM Scholarship. Uncertainty Estimation in LLM at Cambridge University of Cambridge and Biological Learning Lab, University of Cambridge	ersity. 20
Granted FPI-UAM Scholarship. Competitive Predoctoral Contract for Training Research P Department of Computer Science, Autonomous University of Madrid	Personnel 20
Research Collaboration Scholarship Department of Computer Science, Autonomous University of Madrid	20
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	ethods 20
Open Source Contributions	
AlexImmer/Laplace — ★441 Implemented Functional (GP) Laplace, working on implementing Variational (VaLLA) and Nyström (ELLA) variants	20 s.
libreim/apuntesDGIIM — \star 79 Divulgation group destinated to the double degree in computer science and mathematics, Granada.	20
Skills	
Divulgation group destinated to the double degree in computer science and mathematics, Granada.	