Adrián Javaloy Bornás

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Saarbrücken, Germany

Education

2020 – now	**PhD candidate**, *advised by Isabel Valera*, University of Saarland
2019 – 2020	**PhD candidate**, *advised by Isabel Valera*, MPI for Intelligent Systems
2017 – 2018	**MSc in New Technologies in Computer Science**, *University of Murcia*, 9.37/10 GPA, 60 ECTS
2016 – 2017	**Erasmus+**, *Norwegian University of Science and Technology*, Trondheim
2012 – 2018	**BSc in Computer Engineering**[1], *University of Murcia*, 8.60/10 GPA, 240 ECTS
2012 – 2017	**BSc in Mathematics**[2], *University of Murcia*, 9.37/10 GPA, 240 ECTS

[1,2] Double bachelor degree programme in Mathematics and Computer Science

Research

2021	***RotoGrad: Gradient Homogenization for Multi-Task Learning***, *preprint.*
🔗	Javaloy, A. and Valera, I.
2020	***Relative gradient optimization of the Jacobian term in unsupervised deep learning***, *NeurIPS'20.*
🔗	Gresele, L., Fissore, G., Javaloy, A., Schölkopf, B. and Hyvarinen, A.
2020	***Lipschitz-standardization for robust multivariate learning***, *preprint.*
🔗	Javaloy, A. and Valera, I.
2020	**Preliminary Results on Different Text Processing Tasks Using Encoder-Decoder Networks and**
🔗	**the Causal Feature Extractor**, *Applied Sciences. 10(17):5772.* Javaloy, A., and García-Mateos, G.
2020	**Text Normalization Using Encoder-Decoder Networks Based on the Causal Feature Extractor**,
ⓖ 🔗	*Applied Sciences. 10(13):4551.* Javaloy, A., and García-Mateos, G.

Topics

Knowledgeable	Generative models (e.g. VAEs, NFs) ▪ Multitask Learning ▪ Multi-objective Optimization
Interested	Representation Learning ▪ Probabilistic Machine Learning ▪ Optimization
Others	Information/Differential Geometry ▪ Causality ▪ Fairness ▪ Robustness

Teaching

Winter 2021	**Elements of Machine Learning**, *University of Saarland*, Leader TA
Summer 2021	**Machine Learning**, *University of Saarland*, TA
Winter 2020	**Probabilistic Machine Learning**, *University of Saarland*, TA
Winter 2019	**Advanced Probabilistic Machine Learning and Applications**, *University of Tübingen*, TA

Volunteering

2021	**International Conference on Artificial Intelligence and Statistics (AISTATS)**, *reviewer*
2021	**ML Pre-registration workshop**, *reviewer*
2021 🔗	**Conference on Neural Information Processing Systems (NeurIPS)**, *reviewer*
	Outstanding Reviewer Award (top 8%)
2021	**Tractable Probabilistic Workshop (TPM)**, *reviewer*
2021	**European Conference on Machine Learning (EMCL-PKDD)**, *volunteer*
2021 🔗	**Conference of Uncertainty in Artificial Intelligence (UAI)**, *reviewer*
2021 🔗	**International Conference of Machine Learning (ICML)**, *reviewer*
2020 🔗	**International Conference on Artificial Intelligence and Statistics (AISTATS)**, *reviewer*
2020	**European Laboratory for Learning and Intelligent Systems (ELLIS)**, *evaluator*
2020 🔗	**Machine Learning Summer School (MLSS) Tübingen**, *selection committee*

Summer Schools

2020	**Regularization Methods for Machine Learning (RegML)**, *online*
2020	**Spring Meeting on Mining and Learning (SMiLe)**, *KU Leuven*
2019	**Machine Learning Summer School (MLSS)**, *Moscow*

Internships

Jan'19–Jun'19 **PhD stipend**, *Empirical Inference department*, MPI for Intelligent Systems

Working at the Probabilistic Learning group with Isabel Valera.

Nov'17–Sep'18 **Junior researcher**, *ANTS research group*, Computer Science Faculty at University of Murcia

Collaboration with the local water company on an European project for anomaly detection.