Adrián Javaloy Bornás

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 Saarbrücken, Germany

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

Research

Education

- 2022 Mitigating Modality Collapse in Multimodal VAEs via Impartial Optimization, Spotlight @ ICML 2022
 Javaloy, A., Meghdadi, M. and Valera, I.
- 2022 RotoGrad: Gradient Homogenization for Multi-Task Learning, Spotlight @ ICLR 2022
 - Javaloy, A. and Valera, I.
- 2021 Boosting heterogeneous VAEs via multi-objective optimization, YMIW NeurIPS workshop
 - 岱 Javaloy, A., Meghdadi, M. and Valera, I.
- 2020 Relative gradient optimization of the Jacobian term in unsupervised deep learning, NeurlPS'20
 - 다 Gresele, L., Fissore, G., Javaloy, A., Schölkopf, B. and Hyvarinen, A.
- 2020 Lipschitz-standardization for robust multivariate learning, preprint
 - ば 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.

Awards and funding

2022 Saltire Emerging Researcher Scheme, £2500, 2-month visit to Dr. Vergari @ Edinburgh

Talks

- 2022 University of Edinburgh, Bayesian and Neural Systems Group, On conflict and incomparability
- 2021 University of Eastern Finland, Machine learning in brain imaging group, RotoGrad

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

- 2023 International Conference on Artificial Intelligence and Statistics (AISTATS), reviewer
- 2023 International Conference on Learning Representations (ICLR), reviewer
- 2022 C Conference on Neural Information Processing Systems (NeurIPS), reviewer
 - 2022 Tractable Probabilistic Workshop (TPM), reviewer
- 2022 C Conference of Uncertainty in Artificial Intelligence (UAI), reviewer

^{1,2} Double bachelor degree programme in Mathematics and Computer Science Engineering

- 2022 International Conference of Machine Learning (ICML), reviewer
- 2021 de International Conference on Artificial Intelligence and Statistics (AISTATS), reviewer Outstanding Reviewer Award (top 10%)
 - 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 C Conference of Uncertainty in Artificial Intelligence (UAI), reviewer
- 2021 T 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.

Works on which I proudly appear in acknowledgments

- 2022 ☑ Impossibility of Collective Intelligence, preprint Muandet, K.
- 2022 d' Design of Variational Graph Autoencoders for Interventional and Counterfactual Queries, AAAI Sanchez-Martin, P., Rateike, M. and Valera, I.
- 2021 de Independent mechanism analysis, a new concept?, NeurlPS
 Gresele, L., von Kügelgen, J., Stimper, V., Schölkopf, B. and Besserve, M.
- 2021 & Algorithmic Recourse: from Counterfactual Explanations to Interventions, ACM FAccT Karimi, A-H., Schölkopf, B. and Valera, I.
- 2020 d' Algorithmic recourse under imperfect causal knowledge: a probabilistic approach, NeurIPS Karimi, A-H., von Kügelgen, J., Schölkopf, B. and Valera, I.