Gherardo Varando

📱 *+34 657551955*
✉ *gherardo.varando@uv.es*
gherardovarando.github.io
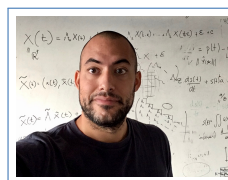
Employment

since September 2024	**Assistant Professor**, *Universitat de València*, Department of Statistics and Operational Research)
2020 - 2024	**Postdoc**, *Universitat de València*, Image and Signal Processing Group (isp.uv.es) Machine learning and causality to tackle earth system and climate questions.
2018 - 2020	**Postdoc**, *University of Copenhagen*, department of Mathematical Sciences, Copenhagen Causality Lab(CoCaLa)
2014 - 2018	**Phd student**, *Universidad Politecnica de Madrid*, dpt. Artificial Intelligence, Computational Intelligent Group (CIG)

Education

2014 – 2018	**Phd in artificial intelligence**, *Universidad Politecnica de Madrid, dpt. Artificial Intelligence, with Honors (Summa Cum Laude)*
2011 – 2014	**Master's degree in mathematics**, *Università degli studi di Firenze, 110/110 con lode*
2007 – 2011	**Bachelor's degree in mathematics**, *Università degli studi di Firenze, 110/110 con lode*

Teaching and Supervision

2018/2019 2019/2020	**Statistics for BioInformatics**, *University of Copenhagen*, Teaching (lectures and exercise sessions) and students evaluation
2018/2019 2019/2020	**Projects in Statistics**, *University of Copenhagen*, Supervision of student projects on image analysis and spatial statistics
2019	**Trabajo fin de Master (final Master project)**, *Universidad Internacional de Valencia (VIU)*, Supervision of student final projects on various artificial intelligence and machine learning topics
2018	**Mátematicas para la Inteligencia Artificial (Math for AI)**, *Universidad Internacional de Valencia (VIU)*, Course design and material preparation, online teaching and students evaluation

Grants — Awards — Competitions

12/2019 **Causality 4 Climate NeurIPS Competition**, *With the Copenhagen Causality Lab team, winners of the overall competition and 18 out of 34 challenges*

01/04-
30/06/2017 **AI*IA Incoming Mobility Grant 2016**, *Travel grant for a research staying at the department of Mathematics, University of Genova hosted by prof. Eva Riccomagno*

01/04-
30/06/2017 **UPM Travel Grant**, *Travel grant for a research staying at the department of Mathematics, University of Genova hosted by prof. Eva Riccomagno*

02/11/2015 **Doctoral Consortium, CAEPIA 2015**, *Best thesis project ex-aequo*, Albacete, Spain

Conferences and Workshops Presentations

23/05/2022 **EGU General Assembly 2022**, *Learning ENSO-related Principal Modes of Vegetation via a Granger-Causal Variational Autoencoder*, Vienna (Austria)

23/07/2021 **ICML 2021 Workshop Tackling Climate Change with Machine Learning**, *Learning Granger Causal Feature Representations (poster)*, virtual

27/01/2020 **Incontro di Statistica Matematica**, *Graphical continuous Lyapunov models*, Sestri Levante (Italy)

13/09/2018 **9th International Conference on Probabilistic Graphical Models**, *A partial orthogonalization method for simulating covariance and concentration graph matrices*, BayesFusion best student paper award, Prague (Czech Republic)

27/07/2018 **Ninth International Workshop on Simulation, IWS 2018**, *Algebraic views on classification problems*, Barcelona (Spain)

18/09/2017 **Slow Monday in Algebraic Statistic**, *The Algebra of Generative Classifiers*, Genova (Italy)

21/06/2017 **First Italian Meeting on Probability and Mathematical Statistics**, *Poster: Polynomial representations of Bayesian Networks Classifiers*, Torino (Italy)

23/01/2017 **One day workshop on Algebraic Statistic**, *Polynomial representations of Bayesian Networks Classifiers*, Genova (Italy)

18/10/2014 **Seventh European Workshop on Probabilistic Graphical Models**, *Expressive Power of Binary Relevance and Chain Classifiers Based on Bayesian Networks for Multi-Label Classification*, Utrecht (NL)

Other Activities – Qualifications

Accreditation for Spanish Assistant Professor (Ayudante Doctor), *ANECA, obtained in 2022*

Accreditation for Catalan Assistant Professor (Lector), *AQU Catalunya, obtained in 2023*

Member of program committees, *PGM2020, PGM2022, UAI2021 (top reviewer), UAI2022 (top reviewer), AISTATS2022, AISTATS2023, ICMLA2021, ICMLA2022, ICMLA2023*

Journals Review activity, *PLOS ONE, JAIR, Statistics, Entropy, IJAR, Applied Sciences*

Introduction to University Pedagogy (3 ECTS), *PhD School of SCIENCE, University of Copenhagen, May 2019*

Languages

Italian	Native	
English	Proficient	*TOEIC, listening and reading (2017): 985/990, writing (2018): 200/200, speaking (2018): 140/200*
Spanish	Proficient	*(Instituto Cervantes DELE C1)*
Greek	Basic	

Computer skills

Programming R, Java, JavaScript, Fortran, python

Software FIJI/ImageJ, RStudio, LaTeX, Git

Selected repository

o stagedtrees: R package to fit stratified staged event trees

o clggm: Continuous Lyapunov Gaussian Graphical Models

o tidybench: TIme series DiscoverY BENCHmark

o gmat: R package for simulating positive definite matrices

o nodag: estimate the structure of a structural equation model (SEM) without imposing the acyclicity constraint

Links

o Homepage

o GitHub gherardovarando

o dbl Varando:Gherardo

o Google Scholar Varando, Gherardo

o ORCID 0000-0002-6708-1103