Julián Martínez

Curriculum vitae

*	06/01/1983
✍	9 rue des forgerons, Janzé, France
☎	Telephone: +33787314686
✉	julianfm7@gmail.com
ϟ	Linkedin Scholar PWP

- Skilled in Mathematical Modelling and Machine Learning with a strong background in Probability/Statistical Mechanics.
- Emphasis in Reinforcement Learning, Generative Models and Bayesian modelling.
- Looking forward to make use of the skill set built by diving into interdisciplinary experiences.

- **Postdoc Researcher** *Dec 2021 - currently*
  at Orange Labs, Cesson-Sévigné

  Research on computational trust modelling through a Reinforcement Learning approach.
- **Consultant Data Scientist** *Jan 2020 - Dec 2021*
  at Aristas

  Designing and implementing statistical and machine learning algorithms. Developing project proposals for clients. Meetings preparation and execution. Supervision of junior datascientists.
- **Adjunct Professor** *Apr 2017 - Dec 2021 (on leave)*
  at FIUBA, Universidad de Buenos Aires

  Head of the course Probability and Statistics; Master/Phd courses: Statistical Learning, Reinforcement Learning.
- **Assistant Researcher** *Dec 2018 - Dec 2021 (on leave)*
  at Instituto de Cálculo, CONICET

  Bayesian Modelling for a Geodetic Reference Frame. Seismic deformation's inference from GNSS coordinate timeseries.

2010- 2014	*Leiden University*, The Netherlands. PH.D. MATHEMATICS *Dynamical Gibbs Non-Gibbs transitions and Brownian Percolation. Advisors: Prof.Dr. Frank den Hollander - Prof. Dr.Roberto Fernández.*
2001-2008	*Universidad de Buenos Aires*, Argentina. LICENCIADO EN CIENCIAS MATEMÁTICAS *Hydrodynamical limit for Simple Symmetric Exclusion Process. Advisor: Prof.Dr. Mariela Sued*

ARISTAS	Projects: Unsupervised learning for automatic fragrances creation; forecasting of sports tickets sale.
El Destape	Prediction of popularity markers on YouTube videos, Topic Clustering of news.

- J. Clavijo, J. Martínez Adversarial learning of permanent seismic deformation from GNSS coordinate timeseries. *Computers and Geosciences (2022), (accepted under revisions).*
- P. Groisman, M. Jonckheere, J. Martínez F-KPP Scaling limit and selection principle for a Brunet-Derrida type particle system. *ALEA, Lat. Am. J. Probab. Math. Stat.* 17, 119 (2020).
- Brownian Paths Homogeneously Distributed in Space: Percolation Phase Transition and Uniqueness of the Unbounded Cluster.
  D. Erhard, J. Martínez, J. Poisat . *Journal of Theoretical Probability*: 1-29. 2016
- Variational description of Gibbs-non-Gibbs dynamical transitions for spin-flip systems with a Kac-type interaction.
  Fernández, R., Hollander, F. D., Martínez, J. *Journal of Statistical Physics*: 1-18. 2014
- Variational description of Gibbs-non-Gibbs dynamical transitions for the Curie-Weiss model.
  Fernández, R., den Hollander, F., Martínez, J. *Communications in Mathematical Physics*: 1-28. 2013

- Francisco Aranda Ordaz Award: to the best thesis in Probability written by a student from Latin America. Sponsored by the Bernoulli Society, 2014.
- Post-Doctorate of Excellence fellowship CAPES, Brazil, February 2014 (declined).
- Postdoctoral fellowship: CONICET, FCEyN, UBA.
- Erasmus Mundus- BAPE scholarship.

- Phd fellowship
  CONICET, FCEN, UBA.

PYTHON	Pandas, Numpy, Scikit-learn, Pytorch, PyMC3, StableBaselines, Spacy.
R	Lars, MASS, glm.

French (intermediate); English (fluent); Spanish (mother tongue); Portuguese (fluent).

I have delivered talks at many conferences and seminars, to mention some of them:

- *An Introduction to Reinforcement Learning*,
  Minicourse delivered for the datascience group of Y-TEC / YPF (argentinan national company of oil and gas). Sadosky Foundation, Feb 2021.
- *Reinforcement Learning*,
  Machin-Lenin Seminar. Instituto de Cálculo - FyCEN - UBA, 2019.
- *An introduction to Variational Inference*,
  Probability Seminar. Departamento de Matemática - FyCEN - UBA, 2019.
- XIV IEEE Escuela de Verano Latinoamericana en Inteligencia Computacional. Universidad de Santiago de Chile. 12-14 / December 2018.
- Invited course: *Bayesian Models in Machine Learning: An Introduction*,
  VI Encontro da Pós-Graduação em Matemática da UFBA. Universidad Federal de Bahía, November 2018.
- Minicourse: " *Continuum Percolation*",
  Summer Program. Instituto Nacional de Matemática Pura e Aplicada (IMPA). Rio de Janeiro, 2015.

- *Invited Professor*, Summer 2019
  Master in Data Mining and Knowledge Discovery, Universidad de Buenos Aires.
  Reinforcement Learning.
- *Adjunct Professor*, 2017 - 2021
  Faculty of engineering, Universidad de Buenos Aires.
  Probability and Statistics; Statistical Learning; Reinforcement Learning.
- *Assistant Professor*, 2014 - 2017
  Universidad de San Andrés. Courses: Statistics (for economists), Analysis II.

- Lic. Tomás Olego. Master in Mathematical Statistics, Universidad de Buenos Aires.
  In progress (Field: Variational Inference applied to vote prediction).
- Vincent Pierre Guy Chavatte. Exchange / Stage of the student - L'École internationale des sciences du traitement de l'information (EISTI), France.
  Title: Graphical Models and Variational Inference.
- Adrien Patten. Exchange / Stage of the student - L'École internationale des sciences du traitement de l'information (EISTI), France.
  Title: Random Networks and Percolation.

- Matthieu Jonckheere,
  Co-founder and Scientific Director, Aristas and mAIedge. CNRS Director of Research, LAAS, Toulouse.
  matthieu.jonckheere@gmail.com
- Yamila Mercedes Barrera,
  Data Science Technical Leader at Mercado Libre.
- Frank den Hollander,
  Prof. Dr. W.Th.F. den Hollander at Mathematisch instituut, Universiteit Leiden.
  denholla@math.leidenuniv.nl