

Julián Martínez

Curriculum vitae

- 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 2021 - 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

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🔗 Linkedin Scholar PWP

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.

- 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, Novem-
ber 2018.
- Minicourse: “*Continuum Percolation*”,
Summer Program. Instituto Nacional de Matemática
Pura e Aplicada (IMPA). Rio de Janeiro, 2015.

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

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

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- Matthieu Jonckheere,
Co-founder and Scientific Director, Aristas and
mAledge. CNRS Director of Research, LAAS,
Toulouse.
matthieu.jonckheere@gmail.com
 - Vincent Frey,
Researcher at Orange INNOVATION/IT-S, Or-
ange Labs, Cesson-Sevigne.
vincent.frey@orange.com
 - Frank den Hollander,
Prof. Dr. W.Th.F. den Hollander at Mathema-
tisch instituut, Universiteit Leiden.
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