

Julián Lopez Baasch

{Computer Scientist, Economist}
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PRINCIPAL INTERESTS

I am an economist and computer scientist who loves building products based on machine learning and deep learning. Also, I have skills in NLP, information retrieval and Computer Vision. As to my research interests, I am interested in understanding the dynamics in society using artificial agents that interact in a game-theoretic setting. Thus, I found in MARL methods a natural fit for my interests.

ACADEMIC BACKGROUND

M.Sc. Intelligent Systems 2019

[AIML GROUP](#), [Universitat Pompeu Fabra](#), Barcelona, Spain

- Research in Multi Agent Reinforcement Learning under direction of prof. [Martí Sánchez-Fibla](#).
- Dissertation title: [Estimating loss aversion in human behavioral data: A Bayesian approach using Reinforcement Learning](#).
- Coursework: Machine Learning, Autonomous Systems, Pattern Recognition, Natural Language Interaction, Computer Vision, Web Intelligence, Data Driven Social Network Analysis

M.Sc. Economics 2014

[Universidad Torcuato Di Tella](#), Buenos Aires, Argentina

- Focus areas: Numerical Methods and Game Theory.
- Research in quantitative finance under direction of prof. [Nicolás Merener](#).
- Coursework: Real Analysis, Measure Theory, Dynamic Programming, Evolutionary Game Theory, Causal Inference, Social and Economic Networks, Stochastic Calculus applied to Finance

Licenciate in Economics 2011

[Universidad Torcuato Di Tella](#), Buenos Aires, Argentina

- Minor in Mathematics and Statistics.

EMPLOYMENT HISTORY

Sr. Data Scientist 2019 - Present

[Banco Galicia](#), Buenos Aires, Argentina

- Leading a data science team with the goal of designing, executing, and delivering data products using company data and third-party sources.
- Trained and deployed NLP models for multi-class and multi-label classification of comments and posts in social networks (Twitter, Instagram, and Facebook). Served this model through a RESTful API for leveraging opinion mining of customers on own and third-party channels.
- Web Scraping of main e-commerce platforms in Latin America which generated sales leads on a daily basis.
- Developed and deployed a model for fraudulent users detection in social networks, based on profile picture and description similarity.

Machine Learning Consultant 2019 - Present
 As a freelance data scientist, I've assisted to a micro-lending fintech startup with:

- Feature engineering and integration of features into the machine learning pipeline.
- Building an NLP based clustering model of mobile text data points.

Data Analyst 2014 - 2017
[DIRECTV Latin America](#), Buenos Aires, Argentina

- Responsible for implementing analytical solutions to various datadriven problems related to Customer Experience regional office.
- Developed a model for measuring repeated TV content between channels based on Jaccard Index.
- Implemented a predictive model of prepaid recharges based on media, sports and social events.
- Deployed a logistic regression model to predict the level of satisfaction based on the customer journey records.

TEACHING
(at Universidad
Di Tella)

- Undergrad TA in Law and Economics
 Prepared text materials for 'Law and Economics' course, BS in Economics. Helped +30 students gain a better understanding of the practical exercises and theory. Assisted group study in the problem sets solving.

SKILLS

- Machine Learning, Deep Learning, NLP, Computer Vision, Deployment, RESTful API, Web Scraping, Leadership

STACK

- Languages:
 Python, Pytorch, TensorFlow, Keras
- Framework:
 Flask, Docker, AWS
- Databases:
 MySQL, PostgreSQL, Hadoop, Hive, Spark
- Other:
 SNAP, Networkx, Matlab, OpenCV, javascript