Julián Lopez Baasch

{Computer Scientist, Economist}
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PRINCIPAL INTERESTS

My research interests lie at the intersection of economics and machine learning. More specifically, I am interested in understanding how learning works in humans and how to make it feasible for agents to exploit the problems of adaptation that arise in multi-agent systems. Thus, I found in agent-based computational economics and 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 Sànchez-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 Satistics.

EMPLOYMENT HISTORY

Machine Learning Consultant — 2019 - Present
mGrana, Buenos Aires, Argentina
- Machine learning consulting for fintech startup
- Assisting in the feature engineering and integration of features into the machine learning pipeline.
- Built a NLP based clustering model of mobile texts data points.

Sr. Data Scienitst — 2019 - Present
Banco galicia, Buenos Aires, Argentina
- Building 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 multiclass and multilabel classification of comments and posts in social networks (Twitter, Instagram and Facebook).
- Generate and track social listening metrics.

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

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