

IÑIGO DE LA MAZA

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Passionate data scientist highly skilled in machine learning, data visualization and creative thinking. Proven ability to explain and present mathematical concepts and results to technical and non-technical audiences. Looking to leverage my multidisciplinary background to help solve challenging data-centered problems.

EDUCATION

Massachusetts Institute of Technology (MIT) Feb. 2019 - Present
Visiting student Cambridge, MA

- Master's Thesis at IMES: "Tailoring Systems Pharmacology through Computational Models"
- MIT 15.095 - *Machine Learning Under a Modern Optimization Lens* (Prof. Dimitris Bertsimas)
 - Convex, robust, and mixed integer optimization in machine learning
- MIT 2.98 - *Sports Technology: Engineering & Innovation*
 - Team leader in data science project for an international sport industry organization in team of seven
- MIT 6.S191 - *Introduction to Deep Learning*
 - Learned how to build, train and evaluate different Deep Learning architectures (CNN, GAN, LSTM)

EAE Business School Sept. 2018 - Apr. 2020
Candidate for Online MBA Barcelona, Spain

- Master's Thesis on the economics of data, and its influence on corporate success and value creation
- Relevant coursework: Operations Logistics, Control Management, Managerial Skills, Cost Management

Technical University of Catalonia (UPC) Sept. 2017 - May 2020
Candidate for MS in Industrial Engineering; minor in Biomedical Engineering Barcelona, Spain

- GPA: 3.60/4 | 3 courses with honors
- Relevant coursework: Industrial Scheduling, Transport Networks, Business Management, Modelling and Simulation of Biomedical Systems, Technological Innovation, Process Control

Technical University of Darmstadt Mar. 2017 - Aug. 2017
Visiting Student Darmstadt, Germany

- Bachelor's Thesis at PTW: "Potential analysis and pre-design of an additive manufactured floating bearing bushing for motor spindle drives"

Public University of Navarre (UPNA) Sept. 2013 - Aug. 2017
BS in Industrial Engineering; minor in Mechanical Engineering Pamplona, Spain

- GPA: 3.45/4 | Rank: 8/122 (top 6.5%) | 4 courses with honors
- Relevant coursework: Statistics, Control Theory, Numerical Methods, Advanced Physics, Calculus

PROFESSIONAL EXPERIENCE

MIT Clinical Research Center Feb. 2019 - Present
Research Affiliate Cambridge, MA

- Applied mathematical modeling, computational statistics and ML in cardiovascular-related biomedical projects
- Developed a mathematical model of blood coagulation under flow conditions

Research Center for Biomedical Engineering (CREB) @ UPC Feb. 2018 - Feb. 2019
Research Scientist Barcelona, Spain

- Led biomechanics research project with industry partners (NISSAN, Meleghy Automotive) about the use of industrial exoskeletons in car manufacturing assembly lines (press coverage: [1](#),[2](#),[3](#))
- Directly influenced a change in state regulatory policies by proving that the use of exoskeletons in the automotive sector can reduce the muscular effort of workers by up to 60%
- Held roles in project management, budget negotiation, data pipeline implementation and data analysis

RELEVANT PROJECTS/COURSES

Data Science projects	2019 Data Science Bowl Kaggle <ul style="list-style-type: none">· Prediction of children performance in educational game apps· Used Optimal Classification Trees (OCT) and mixed integer optimization· Designed feature engineering pipeline and optimization models Automatic event detection in football <ul style="list-style-type: none">· Led team of seven in the development of a ML-based model for automatic event detection and classification in football using real-time tracking data· Adopted agile development methodology with weekly meetings with the client (international sports association), and deployed a final ready-to-use software
Certifications (MOOCs)	Data Science Professional Certificate IBM (9 courses) <ul style="list-style-type: none">· Databases and SQL, Python for data analysis, data visualization, and AI Machine Learning Stanford University <ul style="list-style-type: none">· Neural Networks, dimensionality reduction, anomaly detection, recommender syst. Business and Financial Modeling Specialization Wharton, UPenn (5 courses) <ul style="list-style-type: none">· Quantitative modeling, modeling risk and realities, model-based decision making ML & Reinforcement Learning in Finance NYU Tandon (4 courses) <ul style="list-style-type: none">· Algorithmic trading, Markov Decision Process models, Cryptocurrencies Data Analytics in Finance U. of Illinois at Urbana-Champaign
Competitions	2019 Harvard/MIT Business Case Competition <ul style="list-style-type: none">· Created a strategic business plan for a real client (bioprinting firm)· Held roles in market data analysis, projected market sizing, and business model definition

LEADERSHIP EXPERIENCE

NGO Kutembea Na Tanzania <i>International Volunteer</i>	Aug. 2018 - Sept. 2018 <i>Arusha, Tanzania</i>
<ul style="list-style-type: none">· Led an intercultural team of five to build a school for local children· Designed a renewable energy-based electrical system for the school	

SKILLS

Programming	Python (Advanced), MatLab (Advanced), HTML (Proficient), Julia (Proficient)
Machine learning	TensorFlow, Keras, PyTorch, Sci-Kit, Google Cloud ML Engine
Big data	Apache Spark, Google Cloud Suite
Databases	SQL
Optimization	Mixed Integer Programming, Convex Optimization, Linear Programming
Data visualization	Tableau, Plotly
Version control	Git
Academic writing	LaTeX
Languages	Spanish (Native), English (Fluent), German (Advanced), French (Medium)