Dr Iker Perez

Research Data Scientist

CONTACT

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EDUCATION

PhD in Mathematics   2015
University of Nottingham, UK

MSc in Statistics   2011
University of Nottingham, UK

Graduate in Mathematics   2010
University of the Basque Country, Spain

SKILLS

Coding:
Scientific: R, Matlab
General: Python ❤, Java, C++

Libraries:
ML: Tensorflow ❤, Keras, Scikit
Stats: Stan, Statsmodels, Jags
Data: Pandas, PySpark, Numpy
UI: Plotly, Dash, Shiny

DB: MySQL, Clickhouse, MongoDB

Misc: Git, Docker, AWS

OS: Ubuntu/Debian, Windows, Mac

LANGUAGES

English, Spanish and Basque.

👤 PROFILE

Principal Scientist at Featurespace. Passionate about computational stats and probability theory. Interested in explainable AI and model fairness. Learning from great software developers.

⚙ PROFESSIONAL EXPERIENCE

Data Science: Experience in finance (credit scoring, transaction fraud), computer vision (attributions, saliency), sports (forecasting outcomes), navigation (indoor positioning) and healthcare (workload estimation).

Machine Learning: Advanced understanding of regression analysis, trees, bagging & boosting, graphical models and neural networks, incl. embeddings, recurrent architectures and attention mechanisms.

Research: Expertise in stochastic control and Bayesian computational statistics, applied to optimization problems and probabilistic inference.

Software Development: Serviced end-to-end solutions with primitive services in cloud infrastructures. Storage, etl, compute, networking and dashboarding. Experienced with testing, CI/CD and agile development.

💼 RECENT EMPLOYMENT

Featurespace, *Cambridge, United Kingdom*

Principal Research Scientist   **Jan 2022 - Current**
Identify opportunities for innovation. Define, supervise and contribute to research efforts in fraud prevention. Design and oversee machine learning functionalities in our hub and platforms.

AstraZeneca, *Cambridge, United Kingdom*

Senior Data Scientist   **Aug 2021 - Jan 2022**
Governance of scalable machine learning systems. Supervise software design patterns for the provision of an operations research optimisation engine.

Featurespace, *Cambridge, United Kingdom*

Research Scientist   **Feb 2020 - Jul 2021**
Research and dissemination of methodology for card fraud prevention and anti money laundering. Prototype tools to be used within delivery pipelines.

Oakbrook Finance, *Nottingham, United Kingdom*

Senior Data Scientist   **Jul 2019 - Jan 2020**
Credit risk and customer management modelling. Design statistical model assessment tools, develop feature engineering and selection libraries.

University of Nottingham, *Nottingham, United Kingdom*

Assistant Professor in Statistics & Data Science   **Jan 2017 - Jul 2019**
Research, supervision and teaching role based at the School of Mathematical Sciences. Develop Bayesian computational inferential methods targeted at epidemic and queueing systems.

Research Fellow in Computer Science   **Oct 2015 - Dec 2016**
Interdisciplinary role collaborating with medical practitioners. Design decision support systems to inform best practice in Out-of-Hours hospital care delivery.

Sportradar UK, *London, United Kingdom*

Quantitative Analyst   **Sep 2014 - Sep 2015**
Development of predictive models for tennis, Australian rules football and basketball. Research techniques for applications. Support in implementation.