Jacobo Blanco

DATA SCIENTIST

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PROFILE

Data scientist with a strong background in analytics and modelling, as well as building tools and reports to help people get their job done better based on data. Passionate about communicating insights from data analysis to non-technical audiences and building tools to make people's work faster and easier. I also make really good ice coffee. For more detailed information on projects and sample materials please see the LinkedIn profile above.

WORK EXPERIENCE

Paidy (Fintech)
Tokyo, Japan

DATA SCIENTIST — *Jan 2017 - Present*

- Data scientist in the Risk and Analytics team, focused on providing high-quality data products and consultation to all teams at Paidy. From gathering requirements to building and deploying automated reports with Python and RMarkdown, self-service interactive tools using Shiny, and leading the company's data request desk.
- Manage and develop Paidy's interactive data tooling suite using R, Shiny, and Plotly. Gathered and clarified requirements, built ETL pipelines in PostgreSQL, created the UI and visualisations, and deployed to the company's AWS environment.
- Drive internal automation and process improvements by building automated reports, and connecting numerous APIs with Python including Slack, JIRA, Confluence, Pipedrive, Box, and others. Reduced manual labor on a number of processes for sales and finance teams.
- Designed, built, and manage the company's internal data request help desk based on JIRA, servicing over 50 data products a month to various teams. Setup an agent rotation system to spread workload and knowledge across the analytics team.
- Participate in a variety of company-wide initiatives including driving the company's move to data-driven product design, financial reporting standardisation, and HR liaison and health-committee.

Interac
Yokohama, Japan

ASSISTANT LANGUAGE TEACHER — *Aug 2016 - Jan 2017*

EMC (Critical Infrastructure)
Cork, Ireland

ASSOCIATE RESEARCH SCIENTIST — *May 2015 - May 2016*

- Built an SVM-based outlier detection model for smart electrical grid data included in the SPARKS PoC analytics dashboard. Reduced the computation time tenfold while enhancing the look-and-feel of the user interface.
- Created a detector to identify clusters of dead sensors in the first 2 months of learning the R language. Self-learnt spatial analysis skills to create a preliminary data product for the HSE based on ambulance trajectory data. Leveraged ML clustering techniques to parse the data into individual journeys.
- Headed the streamlining of the in-house expense and time reporting efforts through the development of custom web-applications. Administered and maintained the groups git code repositories and intranet.

CERN
Geneva, Switzerland

STUDENT RESEARCH INTERN — *Jul 2010 - Sep 2010*

- Developed C++ and python analysis applications to search for theoretical particles in millions of data points collected by the ATLAS experiment at CERN.
- Implemented and maintained two data analysis projects using C++ and python to search for new particles, and estimates the performance of data classification algorithms. Streamlined the analysis scheme used by the team based on the results of these projects. The results were presented to other expert teams at CERN.

Physics Dept. Royal Holloway
Egham, UK

STUDENT RESEARCH ASSISTANT — *Jul 2009 - Aug 2009*

Physics Dept. Royal Holloway
Egham, UK

STUDENT RESEARCH ASSISTANT — *Jul 2008 - Aug 2008*

Education

Royal Holloway, University of London   *Egham, UK*
PHD PARTICLE PHYSICS   *Sep 2010 — May 2015*
- Focused on assessing the performance of a particle identification algorithm and its implementation in various analyses.
- Implemented three data analysis projects using C++ and bash to interpret large quantities of collected data using the world-wide Grid system. Leveraged unit-testing and TDD to ensure the robustness of the results.
- Designed the application architecture to reduce the turn-around time on new analysis ideas or incorporate external packages provided by other expert groups.

Royal Holloway, University of London   *Egham, UK*
MSCI (HONS) ASTROPHYSICS (2:1)   *Sep 2006 — Jul 2010*
- Focused on particle physics and data analysis. Master thesis on leveraging machine learning classification techniques (BDT and NN) to improve the selection efficiency of particle physics events.

Sotogrande International School   *Sotogrande, Spain*
IB DIPLOMA (33 POINTS)   *2002 — 2006*
- focused on physical sciences

Sotogrande International School   *Sotogrande Spain*
IGCSE   *2004 - 2006*

Volunteering

CoderDojo   *Cork, Ireland*
MENTOR   *Sep 2015 — Jan 2016*
- CoderDojo is a global network of volunteer-led coding clubs for kids and young adults. The EMC CoderDojo meet once a week for two hours and was organized by 12 volunteer mentors overseeing 40 kids ages 7-13.

Royal Holloway   *Egham, UK*
VOLUNTEER PHYSICIST   *Mar 2011*
- Led educational sessions on the Evolution of the Early Universe with Legos during the univerity's science open day

Awards and Honors

Cork, Ireland   *EMC*
EXCELLENCE@EMC SILVER AWARD   *May 2016*
- Awarded for a significant innovative impact on a BU or team.

Technical Skills

- Languages: R, Python, c++, bash
- Data visualization and reporting: ggplot2, shiny, plotly, rmarkdown, LaTeX
- Analysis and Machine learning: outlier detection, clustering, classification
- Software: Git and GitHub, RStudio, Sublime Text, JIRA, Confluence

LANGUAGE SKILLS

- Spanish: First language
- English: Fluent, technical
- Hebrew: Fluent
- Japanese: Beginner