# Robert Dargavel **Smith**

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What motivates me: Creating value for businesses by breaking down silos & challenging the status quo

#### Ski**lls**\_

- · Management of complexity, uncertainty & change.
- Experience of managing, leading & getting the best out of teams.
- · Effective communication of highly technical concepts.
- Capacity to become self-taught recognized expert in many fields.
- Creative, intellectually curious and persistent.
- Implementation of mathematical models for business.
- Very strong programmer in Python and C/C++.
- · Bilingual in English and Spanish.

## Wor**k Experience**

**IHS Markit** London UK

HEAD OF DATA SCIENCE, ED April 2020 - Present

- Reporting directly into Executive Vice President group CTO of IHS Markit (~16,000 employees).
- · Managing team of 20 Data Scientists based in London, Gdansk and Bangalore and projects using NLP, classic ML and Deep Learning.
- Working with FS, Automotive, Maritime & Trade and Energy to identify & engage with business opportunities that have significant ROI potential.
- · Projects included: time series prediction with RNNs, prediction of oil & gas well production, NER and summarization of reports, propensity of clients to buy a car, trade forecasting, GHG emission estimation.
- · Adapted / adopted tools to improve the way of working, collaboration and the quality of our deliverables.

Santander Madrid, Spain

HEAD OF CVA TRADING DESK, MD

- Responsible for front office P&L management of credit risk of derivative contracts with counterparties of the bank.
- Started function from scratch, managing change across all affected areas & locations and transforming regulatory requirement into opportunity.
- Convinced CTO and CRO of need to rebuild enterprise wide credit risk system, securing >€10m budget.
- Frequently invited to speak at industry conferences in Europe, USA & Asia.

Santander Madrid, Spain

EUROPEAN HEAD OF RATES & CREDIT QUANTITATIVE ANALYSIS, MD

Oct. 2007 - May 2011 · Transitioned team from producing models for structured credit products to developing models to manage credit risk in derivative contracts.

· Re-purposed existing valuation engine to also calculate exposure profiles, adding value to a new sector of internal clients.

Santander Madrid, Spain

GLOBAL HEAD OF PRODUCTS, MD

Nov. 2006 - Oct. 2007

May 2011 - March 2020

- · Traveled extensively across Latin America & Europe, managing differences in culture & markets in order to cross-fertilize product capabilities.
- · Prioritized development of product & valuation model adaptations to local markets.

Santander Madrid, Spain

GLOBAL HEAD OF QUANTITATIVE ANALYSIS, MD

Jan. 2001 - Nov. 2006

- Convinced Global Treasurer and CRO of need for front office quantitative analysis team to respond to client demand for new products.
- · Starting from scratch, built and led team of over 20 people from more than 10 nationalities based in Madrid, London & New York.
- Significantly reduced time-to-market by changing team's way of working from building VB prototypes to being owners of production C++ code.
- · Worked closely with traders to develop innovative models allowing for the commercialization of highly customized products.

**ABN Amro** London, UK

QUANTITATIVE ANALYST 1995 - Jan. 2001

- Moved from IT to Quantitative Analyst after impressing department head with derivation of formula for valuation of double barrier options.
- Accelerated product development cycle by designing and implementing a pricing & valuation engine with a product description language.

#### Harlequin (now Global Graphics)

SOFTWARE ENGINEER

Cambridge, UK

1993 - 1995

- Developed device drivers for commercial printing presses.
- Achieved 50% speedup by rewriting Windows OS level functions.

Education.

#### **MBIT School - Madrid Business Inteligence Technology**

Madrid, Spain

ADVANCED MACHINE LEARNING EXPERT PROGRAM

2019 - 2019

- Created a music recommendation system by training a Deep Convolutional Neural Network with audio samples from Spotify playlists. Deployed at https://deej-ai.online and on iOS & Android using Python (TensorFlow & Keras), React JS, React Native, Kubernetes & Helm. GitHub repos: https://github.com/teticio
- · Awarded maximum grade and was invited to be a Professor in subsequent editions of the course.

Oxford University Oxford, UK

B.A. FIRST CLASS HONOURS IN MATHEMATICS

1990 - 1993

· Awarded Pembroke College prize for Mathematics.

### **Publications**

#### An Almost Exact Simulation Method for the Heston Model

Journal of Computational Finance

AUTHOR

2007

• Article in peer-reviewed journal.

#### Landmarks in XVA: From Counterparty Risk to Funding Costs and Capital

Risk Books

Co-author

• Chapter on "Managing XVA in the Ring Fenced Bank".

# Extracurricular Activity

#### **MBIT School - Madrid Business Intelligence Technology**

Madrid, Spain

PROFESSOR IN ADVANCED MACHINE LEARNING EXPERT PROGRAM

2019 - 2020

2013 - 2020

2001 - 2008

 $\bullet \ \, \text{Specialising in Deep Learning and NLP (Bert, GPT)}. \ Billingual \ \text{Jupyter notebooks: } \\ \textbf{https://teticio.github.io/aventuras} \\$ 

Universidad de Alcalá Madrid, Spain

PROFESSOR

• Teaching classes in Masters of Quantitative Finance and in Masters of Artificial Intelligence.

#### **Oxford University & Bangor University**

Madrid & London

MINDFULNESS INSTRUCTOR

2017 - Present

- Founded small business, giving 8 week Mindfulness courses to the general public.
- Created and delivered a program for people at risk of social exclusion.
- Lead weekly sessions in Santander, having built up a list of 200 interested colleagues by word of mouth.
- Developed and facilitated Building Resilience with Mindfulness course for colleagues in IHS Markit.

**HiTop Records**Madrid, Spain

DJ PRODUCER

- Produced 12" single, included on BBC Radio DJ Gilles Peterson compilation.
- Live radio and club DJ (Madrid, London, Lisbon & Belgrade).

#### **Sports**

ATHLETE

- Bronze medal in Junior World Rowing Championships (1990).
- Completed Ironman Triathlon (2011).
- Personal Best in New York City Marathon (2013) of 2:47.

#### References\_

Available on request.