Ali Farzanehfar

Ph.D Student

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Education

Imperial College London
London - United Kingdom

Ph.D in Computational Privacy and Computational Economics
Dec. 2016 - Dec. 2020 (expected)

- Awarded scholarship of £130,000 (versus the typical £70,000) based on academic merit
- 4 high-profile talks (to 70+ people): the European Commission (Belgium), the FCA (UK), ITDP (USA) (linked)

University of Cambridge
Cambridge - United Kingdom

Masters courses in Applied Mathematics
Oct. 2015 - Jun. 2016

University of Southampton
Southampton - United Kingdom

Masters in High Energy Particle Physics **(First Class Honours)**
Oct. 2011 - Jun. 2015

- Won "Best research thesis" award for anomaly detection algorithm developed at CERN
- Awarded scholarship worth £22,600 based on academic merit
- Awarded CERN placement as one of the top three students in class of 200+ (98.5^{th} percentile)

Oxford Brookes University
Oxford - United Kingdom

International Foundation Diploma in Liberal Arts **(First Class Honours)**
Feb. 2011 - Sep. 2011

- "Excellence of Achievement" award for project on *The dangers and uses of AI technology*

Moheb e Safa High School
Tehran - Iran

Pre-University certificate **(Top 0.3% of 300,000 students nationally)**
Sep. 2008 - Sep. 2010

Experience

Opportunity International
London - United Kingdom

Consultant - Operations and Strategy
Jun. 2018 - Present

- Operations: Develop a digital solution to expand school-fee loans to low-income families in Uganda
  - Reduced bank costs by digitising loan decision process (21 days to 1 day) for 9,000+ customers
  - In a team of 3, created a data standard to future-proof the digitisation strategy of the Ugandan bank
  - Successfully balanced the needs of local Ugandan loan officers and London management team
- Strategy: Conceived strategy and obtained funding to expand into the Pakistan market (Ongoing)

Imperial College London / Dyson School of Design Engineering
London - United Kingdom

Teaching assistant: Big Data, Introduction to Machine Learning, Coding for Medics
May. 2017 - Present

- Designed course material and taught 200+ students at both Undergraduate and Masters level

Imperial College London / Data Science Institute
London - United Kingdom

Ph.D Researcher
Dec. 2016 - Present

- Market Competition: Quantify the impact of AI on competitive insurance markets with real pricing models
  - Leading a team of 4 researchers over 1.5 years in experiment design and scale (20-fold increase)
  - Seeking out, and maintaining contact with, 4,000 actuaries over 3 months for data collection
- Privacy: Estimate the re-identification risk of very large (60M) mobility data sets (real mobile phone data)
  - Built a machine learning model, exposing privacy limits in policy (submitted to Royal Society)
- Supervising 1 undergraduate and 1 graduate student project over an academic year

The European Organization for Nuclear Research (CERN)
Geneva - Switzerland

Research assistant for the CMS Electromagnetic Calorimetery group
Sep. 2014 - May. 2015

- Discovered the cause of anomalous signals in detector, using 3 self-designed, hypothesis-driven tests
- Built and validated a detection algorithm for anomalous signals using a large-scale simulation (C++)
- Published research that led to saving €5M by delaying the need for an upgrade for 5 years

University of Southampton Students' Union (Capoeira Club)
Southampton - United Kingdom

Founder and President
Oct. 2012 - Sep 2014

- Founded and led the growth of the club from 5 to 150 members in 2 years (committee of 7 members)

Additional skills

Programming:	**Languages:**	**Interests:**
— Python (Advanced)	— English (Native)	— Capoeira (11 years)
— C++ (Novice)	— Farsi (Native)	— Jazz piano (8 years)
— R (Novice)	— Portuguese (Novice)	— Bungee jumping (18 jumps)