Ali Farzanehfar

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Education

Imperial College London *London - United Kingdom*
Ph.D in Computer Science (Focus on data privacy and computational economics) *Dec. 2016 - June. 2021*

- Computational Economics: Impact of AI in competitive insurance markets in the future
  - Built 2000 simulations of UK insurance market, reproducing firm profitability, and market competition
  - Designed and implemented online data collection strategy with a reach of 10,000 professional actuaries
  - Project management in a team of 4 researchers over 1.5 years
- Data Privacy: Showed that anonymized mobile phone data (250M records) are highly re-identifiable (Paper Cell Press)

University of Cambridge *Cambridge - United Kingdom*
Part III of the Mathematical Tripos (Preparatory PhD courses) *Oct. 2015 - Jun. 2016*

- Selected courses in applied mathematics in preparation for PhD
- Essay on the useful application of Majorization theory in understanding entanglement in quantum states

University of Southampton *Southampton - United Kingdom*
Masters in High Energy Particle Physics **(Top student in class - First Class Honours)** *Oct. 2011 - Jun. 2015*

Experience

Digital Consultant - Opportunity International *London - United Kingdom*
Operations and Strategy **(Gates foundation funded)** *Jun. 2018 - June 2020*

- Gates foundation project: Sustainable digitisation of loan processing in developing countries
  - Using proprietary data from 3 major banks, developed 4 digital solutions to reduce costs in loan processing
  - Developed a custom credit score to increase education based loan profitability
  - Increased loan accessibility for 9,000+ in-need families in pilot run of credit score
- Conceived A/B test-based strategy and obtained funding to expand into the the South Asian market

Research Assistant - CERN *Geneva - Switzerland*
CMS detector at the Large Hadron Collider **(Top research student)** *Sep. 2014 - May. 2015*

- Built anomaly detection algorithm and presented results to team leading to savings of €5M in preventable repair costs

Leadership

Lead Data Analytics Training Director - European Commission *Brussels - Belgium*
Directorate-General for Communications Networks, Content and Technology *Dec. 2019 - Dec. 2021*

- Supplied the European Commission with data analytics training through 4 workshops
- Leading a team of 3 in designing training material and delivering training with strict deadlines

Lead Teaching Assistant - Imperial College London *London - United Kingdom*
Courses: Big Data, Intro to Machine Learning, Coding for Medics *May. 2017 - June 2021*

- Led teams of 2-8 for 3 years in the design and development of courses for 150+ undergraduate and masters students

Founder and President - University of Southampton Capoeira Club *Southampton - United Kingdom*
University of Southampton Students' Union *Oct. 2012 - Sep 2014*

- Founded and led the growth of the club from 5 to 300 members in 2 years (committee of 7 members)

Honours & Awards

2019	**J.P. Morgan AI fellowship candidacy**, Winner at Imperial College	*Imperial College London*
2016 - 2019	**Data Science Institute scholarship**, Valued at £130K, double the typical £70K	*Imperial College London*
2015	**Best Masters thesis**, Awarded for work done at CERN on CMS	*Southampton University*
2014	**Meritorious scholarship**, Valued at £22,600, awarded towards tuition fees	*Southampton University*

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)