

Ali Farzanehfar

Ph.D Candidate

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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 - Mar. 2021 (expected)

- 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 - Present

- 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 - Present

- 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 - Present

- 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:

- Python (Advanced)
- C++ (Novice)
- R (Novice)

Languages:

- English (Native)
- Farsi (Native)
- Portuguese (Novice)

Interests:

- Capoeira (11 years)
- Jazz piano (8 years)
- Bungee jumping (18 jumps)