

Ado Farsi, PhD Computational Mechanics Scientist

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Experience

February 2021 –	Lead Consultant at Imperial College Consultants Scientific and engineering consultant for the modelling of structural materials.
November 2020 –	Committee Member of the Imperial Postdoc and Fellows Enterprise Network Supporting researchers in establishing their start-ups and consultancy work to commercialise their research at Imperial College London.
April 2020 – E: March 2022	Modelling carbonate rock failure and solids production prediction Main researcher (Imperial College London). Industrial collaboration with Petronas.
April 2020 –	Member of the Assistance in Modelling the Pandemic Task force established by the Royal Society in its response to key questions for COVID-19 policymaking.
October 2019 –	College Representative of Postdocs and Fellows Delegate for representing the postdocs and fellows of the Earth Science and Engineering Department at Imperial College London.
August 2019 – January 2021	14th World Congress in Computational Mechanics Organiser of a mini symposium with 9 international speakers.
July 2019 – March 2020	Modelling of breakwaters and shoreline defence structures Main researcher (Imperial College London).
June 2019 –	Co-director of Golden Square Tutors Collective of top private tutors for university students based in central London. Teaching 40+ engineering students.
January 2019 – June 2019	Modelling of Jetting Processes and Laterals Stability Researcher in a European collaborative taskforce. Industrial collaboration with Well Services Group.
January 2018 – January 2019	Developing computational tools for catalyst pellet packing Main researcher (Imperial College London). Industrial collaboration with Johnson Matthey.
July 2017 – January 2018	Modelling of fibre-reinforced concrete tunnel linings Main researcher (Imperial College London). Industrial collaboration with Transport for London and Bedi Consulting.
October 2014 – August 2016	Organising committee member for the Hermes 2016 summer school Leading activities for 30+ international Master's/PhD students. Planning workshops, inviting world-class academic and industrial speakers, and liaising with funders.
August 2013 – June 2017	Improving the performance of catalyst pellets Postgraduate researcher, PhD project (Computational Mechanics, Imperial college London). Industrial collaboration with Johnson Matthey.
February 2013 – August 2013	Inverse analysis procedures and applications to drilling operations Postgraduate researcher, MSc project (Civil Engineering, Politecnico di Milano). Industrial collaboration with ENI.
July 2010 – September 2010	Comparative analysis models of beams on elastic foundations Undergraduate researcher, BSc project (Building Engineering, Politecnico di Milano).

Funding

Attracted funding valued at **£734,003** as PI, co-PI, named postdoc, main researcher, lead consultant and for licensed software.

2021	Consultancy contract with Cloud Cycle Title: Modelling the rheological properties of concrete. Lead consultant.	£50,000
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2019	PETRONAS Centre for Engineering of Multiphase Systems Title: Modelling carbonate rock failure and solids production prediction. Main researcher.	£ 402,257
2019	EPSRC Impact Acceleration Account Title: Modelling of breakwaters and shoreline defence structures. Named postdoc and proposal review/editing.	£71,796
2019	Dame Julia Higgins Engineering Postdoc Collaborative Research Fund 3 successful projects (1 as PI and 2 as co-PI). Main proposal writer.	£6,355
2019	Licensed software (DEM Plus) and industrial workshop Running a workshop for 3 industrial researchers. Creating the training materials, tailor and validate the software on the basis of specific industrial requirements, showcase the software's capabilities to build trust with companies.	£45,000
2018	EPSRC Impact Acceleration Account Title: Developing computational tools for catalyst pellet packing. Named postdoc and proposal review/editing.	£72,495
2017	ICE Research and Development Enabling Fund Award Co-funded by Transport for London and Bedi Consulting. Title: Modelling of fibre-reinforced concrete tunnel linings. Named postdoc and main proposal writer.	£86,100

Awards

December 2020	ESE Team Award and Recognition Scheme In recognition of work as a College Representative of Postdocs and Fellows of the Earth Science and Engineering Department at Imperial College London.
April 2018	Top 100 read papers for Nature Scientific Reports in 2017 1,592 article views in 2017 according to nature.com web analytics.
August 2016	Best Student Paper Award 7th International Conference on Discrete Element Methods (Dalian, China).
August 2013	EPSRC – Case industrial Studentship with Johnson Matthey

Teaching and supervision

June 2019 –	Training to industry research scientists in computational mechanics 3 industrial researchers (1 Senior Engineer, 1 Senior Scientist and 1 Principal Researcher at Johnson Matthey).
July 2014 –	Master's student supervisor at Imperial College 15 students (6 Applied Computational Science & Engineering MSc students, 8 Geophysics MSc students and 1 Petroleum Engineering MSc student).
October 2013 –	Teaching assistant at Imperial College 6 courses (maths, physics, engineering and programming topics) in the Department of Earth Science and Engineering.
August 2009 –	Private tutoring 40+ engineering students working with major London-based tutoring agencies and co-directing Golden Square Tutors.

Scientific output

Academic talks

14 conferences and 3 seminars in the UK, the rest of Europe, Asia and America. 11 presentations (of which 1 as mini symposium organiser and 2 invited presentations) and 6 poster presentations.

Publications

16 publications. 4 first author peer reviewed journal publications, 1 peer reviewed journal publications as a co-author, 3 first author conference publications, 3 conference publications as a co-author, 2 published reports as a co-author and 3 theses.

Peer reviewing

Invited reviewer for 5 scientific journals (Computer Methods in Applied Mechanics and Engineering, Powder Technology, Bulletin of Engineering Geology and the Environment, International Journal of Pavement Engineering, Journal of Visualized Experiments) and 1 grant-awarding body (Engineering and Physical Sciences Research Council). Panel member for the 2021 call of the Dame Julia Higgins Engineering Postdoc Collaborative Research Fund.