Mohammad Ansarin

Academic Curriculum Vitae

Male | born September 18, 1990 | Iranian citizenship

Education

2015 – Present **PhD Candidate in Management Information Systems**, *Rotterdam School of Management, Erasmus University*, Rotterdam, the Netherlands.

2013 – 2015 **MSc in Biomedical Sciences and Engineering**, *Koc University*, Istanbul, Turkey, GPA 3.67/4.
MSc Thesis: A Comparison of Nanoindentation and Mesoscale Measurements on Polychloroprene Rubber

2008 – 2012 **BSc in Mechanical Engineering**, *Sharif University of Technology*, Tehran, Iran, GPA 15.56/20.
BSc Thesis: Design of a Reciprocating Gait Orthosis

Experience

2015 Sep – Present **PhD Candidate**, *Technology and Operations Management, Rotterdam School of Management, Erasmus University*, Rotterdam, the Netherlands.
Research projects at the intersection of management, economics, and energy systems. Details in *Research Projects Subsection*
Teaching assistant for multiple courses and MSc thesis supervision. Details in *Teaching Subsection*
Rotterdam School of Management Faculty Council representative (September 2017 - August 2019); Vice-Chair (September 2019 - August 2020)

2013 Feb – 2015 May **Research and Teaching Assistant**, *Graduate School of Sciences and Engineering, Koc University*, Istanbul, Turkey.
Details in *Research Projects* and *Teaching*

Summer 2012 (2 months) **Internship**, *Rahbord Danesh Pooya Institute*, Tehran, Iran.
Rahbord Danesh Pooya is an engineering consulting firm based in Tehran, Iran, which focuses on optimizing efficiency in large-scale industrial projects across Iran. More at: rdpi.ir/en

2011 Dec – 2012 Aug (9 months) **Translator**, *Sharif Journal of Mechanics (Nameh Mechanice Sharif, Sharif University of Technology)*, Tehran, Iran.
Translated multiple general interest and mechanical engineering articles for the Journal.

Summer 2011 (2 months) **Internship**, *Biofluid Engineering Lab, Mechanical Engineering Department, Sharif University of Technology*, Tehran, Iran.
Designed a peristaltic pump for bioreactor fluids, with focus on minimizing turbulent flow and pressure gradients within fluid.

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Research Projects

(reverse chronological order)

2019 July – Present **Agent Based Digital Urban Energy Business Ecosystem: An Agent-based Simulation of Retail and P2P Business Models**, *with Stefano Zambotti, Jason Bassett, and Yashar Ghiassi-Farrokhfal*.

2019 Jan – 2019 August **Temporal city-scale matching of solar photovoltaic generation and electric vehicle charging**, *with Ulrich Fretzen and Tobias Brandt*.
This study focuses on matching EV charging patterns with solar energy generation in an urban environment. Multiple PV integration levels were calculated based on LiDAR data from a small European city. Geographical vehicle usage patterns were also collected from the same locale and transformed into EV charging requirements based on multiple charging approaches. The matching between these two is analyzed, based on the effects of season, PV integration, EV use, charging approach, and PV installation decisions.

Working papers
1. **same title**; *accepted for presentation at International Conference of Applied Energy 2019*

2016 Jan – Present **PhD Dissertation: Industrial Energy Cooperatives**, *Supervisors: Wolfgang Ketter, Yashar Ghiassi-Farrokhfal, also with John Collins*.
My PhD dissertation is on the organizational nature of energy cooperatives and their influence on the commercial and industrial sector's energy transition. I investigate the consequences of managerial decisions within the electricity grid with an economic lens. Our current focus is on the effects of metering and tariff design on economic efficiency, especially in high-renewables scenarios.

Working papers
1. **The Economic Consequences of Sub-par Tariff Design in a Renewable Energy Era**; *presented at International Conference of Applied Energy 2019, IAEE International Conference 2019*
2. **Cross-subsidies Among Residential Prosumers from Tariff Design and Metering Infrastructure**; in double-blind peer review; *presented at IAEE International Conference 2018, Workshop on Information Technology and Systems (WITS) 2017, WITS 2016*

2015 Sep – Present **The Power Trading Agent Competition**, *with Wolfgang Ketter, John Collins, and Yashar Ghiassi-Farrokhfal*.
Power TAC is a competitive simulation of the electricity supply chain. The platform uses a dynamic agent-based modeling approach to understand the effects of various changes in the electricity grid. We seek to evaluate policy and business decisions by clarifying possible consequences and predicting future market trends. More info at `powertac.org`

Working papers
1. **Alignment Activities in Competitive Benchmarking: Analysis of the Power Trading Agent Competition**; *presented at IEEE Innovative Smart Grids Conference Europe 2016 (`doi.org/10.1109/ISGTEurope.2016.7856197`), IJCAI 2016 AMEC-TADA Workshop, Energy Informatics and Management Conference 2016*

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2014 June – 2015 June **EMRP MeProvisc Project**, *EURAMET*.
The MeProVisc project was a joint research program aimed at developing novel measurement standards for viscoelastic materials (e.g. Rubbers). We contributed to the project through testing viscoelastics and comparing results between various testing methods. More info at: `http://projects.npl.co.uk/meprovisc/`

2013 Feb – 2015 May **MSc Thesis: A Comparison of Nanoindentation and Mesoscale Measurements on Polychloroprene Rubber**, *Graduate School of Sciences and Engineering, Koc University*, Istanbul, Turkey, Advisor: Cagatay Basdogan.
Research involved modeling and testing viscoelastic materials (e.g. rubbers, silicone, liver tissue), viscoelasticity measurement instruments designs, and computational considerations.

Spring 2012 **BSc Thesis: Design of a Reciprocating Gait Orthosis**, *Mechanical Engineering Department, Sharif University of Technology*, Tehran, Iran, Advisor: Mohammad Ahmadian.

Teaching

2015 – present **MSc thesis coach/co-reader**, *Rotterdam School of Management, Erasmus University*, Rotterdam, Netherlands.
Supervision of over 30 MSc research theses.

2015 – present **Teaching Assistant/Lecturer**, *Rotterdam School of Management, Erasmus University*, Rotterdam, Netherlands.
Lecturer and Teaching Assistant for Next Generation Business Applications (2 years) and Designing Business Applications (3 years) courses, part of the Business Information Management MSc program. Teaching Assistant for Energy Analytics for Sustainability course (1 year), an RSM MBA course.

2009 – 2010 **Teaching Assistant**, *Language Department, Sharif University of Technology*, Tehran, Iran.
Assistant to Minoo Alemi in the General English course (2 semesters); focus on essay writing.

2013 Feb – 2015 June **Teaching Assistant**, *Graduate School of Sciences and Engineering, Koc University*, Istanbul, Turkey.
Assistant for Dynamic Modeling and Control (3 semesters, Instructor: Cagatay Basdogan) and Machine Design (2 semesters, Instructors: Halit Turkmen, Kerem Pekkan) courses, from the BSc in Mechanical Engineering program.

I also regularly review articles for academic journals (Energy Policy, The Energy Journal, Business and Information Systems Engineering, Energy Efficiency) and conferences (AAMAS, ICIS, HICSS, ECIS, ICAE).

Journal Publications

2016 **Effect of pre-heating on the mechanical properties of silorane-based and methacrylate-based composites**, *Mohammadi, N., Jafari-Navimipour, E., Kimyai S., Ajami A., Bahari, M.,* ***Ansarin, M.****, Ansarin, M.*, Journal of Clinical and Experimental Dentistry, 8,4; doi.org/10.4317/jced.52807.

Grants and Awards

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Jan 2014 **Koc University Graduate Student Full Scholarship**, *Koc University*, Istanbul, Turkey.

Feb 2013 **TUBITAK Project Scholarship**, *Science and Technological Research Council of Turkey*.
Grant Code: 110M469

Test Scores and Certificates

May 2016 **Cambridge CPE**, *Grade A*.

Oct 2014 **GMAT**, *770*, 99th percentile, Analytical Writing: 5.0.

Oct 2014 **TOEFL iBT**, *116*.

Oct 2011 **GRE General**, *160 Verbal, 168 Quantitative, 4.0 Analytical Writing*, Percentiles: 84th, 95th, 56th.

June 2008 **127th, 99.9th percentile**, *Iran's 2008 National Undergraduate Entrance Exam in Science and Engineering (400k+ participants)*.

June 2008 **3rd, 99.9th percentile**, *Iran's 2008 National Undergraduate Entrance Exam in Language Studies (300k+ participants)*.

Nov 2006 **Senior Certificate in English**, *Iran Language Institute*, Tabriz, Iran.
The ILI is the largest language center in Iran; the SCE is its final certificate in English proficiency.

Languages

Native English, Farsi

Proficient Turkish, Azeri

Beginner Dutch, Arabic

Computer skills

Proficient Matlab, R, C++, Solidworks, Microsoft Office

Beginner Python, LaTeX, Linux, SPSS, AutoCAD, FLUENT, Fortran

Interests

Guitar, Piano

Travel, Hiking, the Great Outdoors

Aviation, Aeronautics

References

Website **Wolfgang Ketter**, *Chaired Professor of Information Systems; Faculty of Management, Economics, and Social Sciences, University of Cologne, Cologne, Germany*, +49 221 470 5325, ketter@wiso.uni-koeln.de.

Website **Yashar Ghiassi-Farrokhfal**, *Assistant Professor, Department of Technology and Operations Management, Rotterdam School of Management, Erasmus University, Rotterdam, Netherlands*, +31 10 40 81957, y.ghiassi@rsm.nl.

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Website **John Collins**, *Assistant Professor of Computer Science; University of Minnesota, Minneapolis, MN, United States*, jcollins@cs.umn.edu.

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