Mohammad Ansarin

Academic Curriculum Vitae

Education

2015 – 2021 **PhD Candidate in Management Information Systems**, *Rotterdam School of Management, Erasmus University*, Rotterdam, the Netherlands.
Thesis: The Economic Consequences of Electricity Pricing in the Renewable Energy Era

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

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

Experience

3/2021 – Present **Post-doctoral Researcher**, *Technology and Operations Management, Rotterdam School of Management, Erasmus University*, Rotterdam, the Netherlands.
Researcher for "**Flex**ibility in **S**mart **U**rban Energy **S**ystems" project. Details below in *Research Projects*

2015 – 2021 **PhD Candidate**, *Rotterdam School of Management, Erasmus University*, Rotterdam, the Netherlands.
Research projects at the intersection of management, economics, and energy systems. Details in *Research Projects*
Teaching assistant for multiple courses and MSc thesis supervision. Details in *Teaching*
Faculty Council representative (September 2017 - August 2019); Vice-Chair (September 2019 - August 2021)

2013 – 2015 **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

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.

Research Projects

(reverse chronological order)

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3/2021 – Present
Flexibility in Smart Urban Energy Systems, *with Yashar Ghiassi-Farrokhfal and partners from Denmark Technical University, Chalmers University of Technology, Linkoping University, and the municipalities of Lyngby-Taerbek and Holbaek (Denmark).*
FlexSUS is a collaboration between universities and 2 Danish municipalities on developing sustainable and long-term urban heating solutions. I work on designing scenarios for future urban heating development, and on the economics of retail pricing for urban heating systems. Details at `https://flexsus.org/`.

3/2021 – Present
Designing an Inter-Sectoral Energy Storage System, *with Bart van Lunteren and Yashar Ghiassi-Farrokhfal.*

In progress
1. **[Same title]**; presented at IAEE International Conference 2019.

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

Working papers
1. **[Same title]**; presented at IAEE International Conference 2021.

2016 – 2021
PhD Thesis: The Economic Consequences of Electricity Pricing in the Renewable Energy Era, *Supervisors: Wolfgang Ketter and Yashar Ghiassi-Farrokhfal; also with John Collins.*
My PhD dissertation focuses on the effects of metering and tariff design on equity and economic efficiency, especially in high-renewables scenarios.

Working papers
1. **Economic Inefficiencies of Distributed Generation under Novel Tariff Designs**; in peer review; presented at International Conference of Applied Energy 2020 and IAEE International Conference 2021.
2. **A Review of Equity in Electricity Tariffs in the Renewable Energy Era**; in peer review;
3. **The Economic Consequences of Electricity Tariff Design in a Renewable Energy Era**; published in Applied Energy; presented at International Conference of Applied Energy 2019, IAEE International Conference 2019.
4. **Cross-subsidies Among Residential Prosumers from Tariff Design and Metering Infrastructure**; published in Energy Policy; presented at IAEE International Conference 2018, Workshop on Information Technology and Systems (WITS) 2017, WITS 2016.

Older projects

2019 – 2020
Temporal city-scale matching of solar photovoltaic generation and electric vehicle charging, *with Ulrich Fretzen and Tobias Brandt.*

2015 – 2019
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's dynamic agent-based modeling clarifies the results of various changes in the electricity grid. We seek to evaluate policy and business decisions by clarifying their potential consequences and predicting future trends. This research was presented at IEEE Innovative Smart Grids Conference Europe 2016 (`doi.org/10.1109/ISGTEurope.2016.7856197`), IJCAI 2016 AMEC-TADA Workshop, and Energy Informatics and Management Conference 2016. More info at `powertac.org`.

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

2013 – 2015 **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.

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

Teaching

2015 – 2021 **MSc thesis coach/co-reader**, *Rotterdam School of Management, Erasmus University*, Rotterdam, Netherlands.
Supervision of over 70 MSc research theses.

2015 – 2021 **Teaching Assistant/Lecturer**, *Rotterdam School of Management, Erasmus University*, Rotterdam, Netherlands.
Lecturer and coordinator for Intelligent and Integrated Energy Systems online course, from Technical University of Delft (on EdX in early 2022). Lecturer and teaching assistant for Next Generation Business Applications (2 years) and Designing Business Applications (4 years) courses, part of the Business Information Management MSc program. Teaching assistant for Energy Analytics for Sustainability course (1 year), an RSM MBA course.

2013 – 2015 **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.

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.

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

Academic Journal Publications

2021 **Temporal city-scale matching of solar photovoltaic generation and electric vehicle charging**, *Fretzen, U., **Ansarin, M.**, Brandt, T.,*, Applied Energy, 282; `https://doi.org/10.1016/j.apenergy.2020.116160`.

2020 **Cross-subsidies among Residential Prosumers from Tariff Design and Metering Infrastructure**, ***Ansarin, M.**, Ghiassi-Farrokhfal, Y., Ketter, W., Collins, J.*, Energy Policy, 145; `https://doi.org/10.1016/j.enpol.2020.111736`.

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2020 **The economic consequences of electricity tariff design in a renewable energy era**, ***Ansarin, M.***, *Ghiassi-Farrokhfal, Y., Ketter, W., Collins, J.*, Applied Energy, 275; doi.org/10.1016/j.apenergy.2020.115317.

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.

Other Publications

2020 **Going Greener and Smarter: The Energy Transition at the Port of Rotterdam's Industrial Complex**, *Nikolopoulou, K., Van Koert, M., Ghiassi-Farrokhfal, Y.,* ***Ansarin, M.***, RSM Case Development Centre, https://www.thecasecentre.org/educators/products/view?&id=176396.

2020 **On the Fairness Debate Surrounding Electricity Tariff Design in the Renewable Energy Era**, ***Mohammad Ansarin***, IAEE Energy Forum, 3; https://www.iaee.org/documents/2020EnergyForum3qtr.pdf.

Grants and Awards

1/2014 **Koc University Graduate Student Full Scholarship**, *Koc University*, Istanbul, Turkey.

2/2013 **TUBITAK Project Scholarship**, *Science and Technological Research Council of Turkey*. Grant Code: 110M469

Test Scores and Certificates

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

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

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

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

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

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

Computer skills/languages

Advanced R, Microsoft Office, Matlab

Proficient LaTeX, C++, Solidworks

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

Human languages

Native English, Farsi

Proficient Turkish, Azeri

Beginner Dutch, Arabic

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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.

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

Website **Tobias Brandt**, *Assistant Professor, Department of Technology and Operations Management, Rotterdam School of Management, Erasmus University, Rotterdam, Netherlands*, +31 10 40 81636, brandt@rsm.nl.

Website **Eric van Heck**, *Professor, Department of Technology and Operations Management, Rotterdam School of Management, Erasmus University, Rotterdam, Netherlands*, +31 10 40 82029, eheck@rsm.nl.

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