



Nastaran Naseri

 Nastaran Naseri |  nastaran.naseri@outlook.com |  Google Scholar

EDUCATION

University of Cologne, Germany

2018

Ph.D. in Information & Operations Management

Advisor: Prof. Wolfgang Ketter

Ferdowsi University of Mashhad, Iran

2015 - 2017

M.Sc. in Industrial Engineering & Systems Optimization

Grade: First Class (top of the cohort)

Ferdowsi University of Mashhad, Iran

2011 - 2015

B.Sc. in Industrial Engineering

Grade: First Class (top of the cohort)

EXPERIENCE

University of Cologne

2018 - 2022

Doctoral Researcher

Cologne, Germany

Department of Information system for sustainable society

- Researched data-driven decision making (optimization, machine learning, reinforcement learning, simulation) with focus on future energy markets. Examples of my research include:
 - * Studying the impact of market mechanisms in attracting storage systems to the reserve electricity markets. In collaboration with Rotterdam School of Management.
 - * Proposing a new business model for energy utilities (aggregators) to expose grid reliability costs to storage-enabled customers and incentivize further investments in flexibility at the distribution level. In collaboration with Rotterdam School of Management and Karlsruhe Institute of Technology.
 - * Designing retail electricity tariffs for an electricity aggregator using Reinforcement Learning and Sequence-to-sequence prediction algorithm.
- Published first-authored papers at leading international operations management and information systems conferences and high-impact journals.
- Taught “*Data Science and Machine Learning*” (Bachelor), “*Analytics and Applications*” (Master), “*Advanced Analytics and Applications*” (Master).
- Co-led a research team developing an autonomous agent in retail electricity market simulation competition

Ferdowsi University of Mashhad

2015-2016

Data analyst and researcher

Mashhad, Iran

- Analyzed data and created simulations of multiple production lines and designed educational games for industrial engineering and management students as well as managers in industry. In Collaboration with the University of Massachusetts Boston
- Taught “*Statistics*” and “*Python Programming*” .

SKILLS

Programming languages: Python, Julia, R, C++

ML/AI: Machine learning (Scikit-learn, TensorFlow, Keras), Optimization (commercial(CPLEX, Gurobi) and non-commercial (GLPK) solvers, higherlevel frameworks (JuMP, Pyomo)), Large-scale simulation (SimPy), Discrete event simulation with Rockwell ARENA simulation software

Miscellaneous: Git, AWS, Microsoft azure, Latex, SQL

Soft skills: Agile Project Management, Mathematical modeling, Expertise in sustainability and energy transition

Languages: English (*Fluent*), German (*Intermediate*), Persian (*Native*), Arabic (*Basic*)

HONORS AND AWARDS

- **IAEE Scholarship** Scholarship is awarded for excellent Ph.D. students participating in International Association of Energy Economics conference
- **Best Academic Rank amongst students of Industrial Engineering in Bachelors**, Ferdowsi University of Mashhad
- **Best Research Student of graduate program** in Industrial Engineering Department, Ferdowsi University of Mashhad

PERSONAL INTERESTS

Academic Services:

- Regular ad hoc reviewing activities for leading Information Systems conferences(ICIS, ECIS, WITS, ACM e-Energy) and journals (European Journal of Operations Management)
- Session chair at Production and Operations Management 2022 conference
- Session chair at OR 2022: International Conference on Operations Research

Sports: Fitness and strength training, Amateur volleyball

Hobbys: Reading, Piano learning