

Edouard Fouché, PhD, MBA



Date of birth: 29.11.1992  
Nationality: French, German  
Email: edouard.fouche@kit.edu  
Blog: edouardfouche.com  
Publications: Google Scholar  
 LinkedIn  
 GitHub  
 Instagram

## EXPERTISE

**Data Science / ML**  
**Artificial Intelligence**  
Algorithms, Programming  
Visualization, Databases

## PROGRAMMING

**Python** (~8 years)  
**Scala** (~4 years)  
**SQL** (~4 years)  
**R** (~3 years)

## SOFTWARE

Git, Linux, MacOS, Databases,  
LaTeX, Adobe, MS Office

## SOFT SKILLS

**Research, Teaching**  
**Leadership**  
Stakeholder Management  
Agile Development  
Cultural Awareness  
Dedication, Commitment

## LANGUAGES

**French** (Native)  
**English, German** (Fluent)  
**Japanese, Spanish** (Beginner)

## INTERESTS

Photography (> 12 years)  
Hiking, Travels, Cooking,  
Roller Derby, Fitness

# Award-Winning Data Science Expert Revolutionizing Energy Systems

## EXPERIENCE

- 2023-now Data Scientist for Product Innovation, Siemens AG.**  
◦ Interdisciplinary R&D (Computer science / Energy / Business).  
◦ Python development for state-of-the-art energy timeseries forecasting.
- 2020-2023 Group Leader & Lecturer, Karlsruhe Institute of Technology (KIT).**  
◦ Conducting independent research, collaborations and student theses.  
◦ Co-supervision of 4+ doctoral students, and many master students.  
◦ Principal lecturer at KIT for Data Science (beginner and advanced).  
◦ Organizer for chair-wide meetings, coaching and mentoring.  
◦ 6-month research visit in the group of Prof. Junya Honda, Kyoto University.
- 2016-2020 Researcher & Ph.D. Candidate in Data Science, KIT.**  
◦ Published 8 peer-reviewed research papers and a doctoral thesis.  
◦ Advised 10+ student theses (Master/Bachelor level).  
◦ Worked with 2 research labs (international) and 5 industry partners.  
◦ 3-month research visit at the Data Mining Group, Prof. Jiawei Han, UIUC.
- 2015-2016 Software Developer (part-time/intern), IBM R&D GmbH, Böblingen.**  
◦ Created ibmdbpy, an open-source interface between Python and DB2.  
◦ Writing my Master's thesis in collaboration between KIT and IBM.  
◦ Co-supervision of two fellow interns. Python coaching.

## EDUCATION

- 2020-2021 MBA, Quantic School of Business and Technology.** (fka "Smartly")  
◦ Online, 7% admission rate. Graduated with honors (top 10% of cohort).  
◦ Accounting, Economics, Data & Decisions, Leading Organizations, Marketing, Finance, Supply Chain & Operations, Strategy, Entrepreneurship.
- 2016-2020 Ph.D. (Dr.-Ing.) in Data Science, KIT.**  
◦ Thesis: Estimating Dependency, Monitoring and Knowledge Discovery in High-Dimensional Data Streams. (Advisor: Prof. Klemens Böhm)  
◦ Summa Cum Laude (top 10%). Helmholtz Doctoral Prize. German GPA: 1.0
- 2015-2016 M.Sc. Computer Science, KIT.**  
◦ Thesis: Fast In-Database Feature Selection. (Advisor: Prof. Emmanuel Müller)  
◦ German GPA: 1.4 (Very Good)
- 2010-2015 Diplôme d'Ingénieur (Dipl.-Ing.), ESIEE Paris, France.**  
◦ Major: Computer Science. Final internship at IBM R&D (6 months).  
◦ "Félicitations du Jury" and "Parcours d'Excellence" award.

## AWARDS

- 2024 Best Elective Lectures: Data Science 1 & Data Science 2.**  
KIT Faculty of Computer Science – two times in a row.
- 2023 Leadership Academy Fellow (German Scholars Organization).**  
10K€ grant for leadership training, networking, mentoring.
- 2021 Elite Program for Postdocs (Baden-Württemberg Stiftung).**  
Research funding of 150K€ and trainings for early career researchers.
- 2020 Doctoral Prize (Helmholtz Association).** 5K€ + 12K€ travel scholarship  
The Helmholtz Association is the largest german scientific organisation.
- 2019 Best Paper Award (SSDBM: Statistical and Scientific Database Management).**  
Paper: Monte Carlo Dependency Estimation.
- 2017 Software Campus Fellow (Federal Ministry of Education and Research).**  
100K€ research grant, training, mentoring.
- 2015 Parcours d'Excellence (ESIEE Paris).** Top 1% of the cohort.