

Edouard Fouché, PhD, MBA



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## 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

- 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.