

Edouard Fouché, PhD, MBA



Date of birth: 29.11.1992
Nationality: French, German
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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.**
- Building data pipelines for AI-powered forecasting at scale
 - Driving benchmarking and machine learning operations
 - Managing stakeholders at corporate level and consulting on data strategy
- Tech stack: Jira, Confluence, GitLab CI/CD, Docker, Python, Sklearn, Pytorch, ML-Flow, Kubernetes, AWS S3, AWS EC2, PostgreSQL
- 2020-2023 Group Leader & Lecturer, Karlsruhe Institute of Technology (KIT).**
- Co-supervision of 4+ doctoral students, and many master students.
 - Principal lecturer at KIT for Data Science.
 - 6-month research visit in the group of Prof. Junya Honda, Kyoto University.
- 2016-2020 Researcher & Ph.D. Candidate in Data Science, KIT.**
- 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.