







Max Halford



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EDUCATION

PhD in Mathematics and Computer Science – Université Paul Sabatier **2017–2020**



- Title : *Machine learning for query selectivity estimation in relational databases*
- Published work on Bayesian networks and online machine learning
- Taught data science and database classes to undergraduates and graduates, supervised end-of-year projects.

MSc. Mathematics – Université Paul Sabatier **2014–2017**



- Data analysis
- Data engineering
- Big data
- Machine learning
- Business intelligence
- Software engineering

Mathematics Associate Degree – Toulouse School of Economics **2012–2014**



- Real analysis
- Linear algebra
- Microeconomics
- Quantitative finance

WORK EXPERIENCE (3 PREVIOUS POSITIONS)

Carbonfact – Paris **02/2022–**



- Head of Data

Alan – Paris **10/2020–11/2021**



- <https://maxhalford.github.io/blog/one-year-at-alan/>

SIDEWORK

Open source software



I develop and maintain various open source projects related to data science. In particular, I actively maintain [creme](#), which is a Python library for online machine learning. I have also developed a toolkit for evolutionary algorithms called [eaopt](#) and a factor analysis library called [prince](#). I also have a personal machine learning toolkit called [xam](#).

Kaggle competitions



I'm a Kaggle Master and was ranked in the top 250 across the world. I enjoy competitive data science and I find it to be a great way to sharpen my skills.

Consulting and teaching



I occasionally do consulting work related to data science. Mostly I write machine learning exercises and teach data science courses. I also advise on machine learning project architectures. In general I enjoy teaching, whether it be as a TA at university or in a consultant position.

SKILLS

Programming	Very experienced in Python, JavaScript, and Go.
Databases	Strong knowledge of relational databases ; experience with NoSQL.
Data analysis	Numerous case studies done during university projects, internships, and competitions.
Machine learning	Solid theoretical knowledge of the mathematical concepts and hands-on experience.
Cloud	Knowledgeable in the Azure and AWS cloud stacks.
Web	Hands-on practice of "modern" JavaScript (React, Vue.js, Webpack, etc.)
Code quality	Healthy habits regarding coding conventions, documentation, and testing.
Writing	Keen interest in making documentation and writing blog posts.
Languages	Fluent in English and French. Proficient in Spanish.

DISTINCTIONS

Finalist of the International Data Analysis Olympiads (IDAO)	2020
Finalist of the Data Science Games	2018
Winner of « <i>DataConnexions</i> », a national open data competition	2016
Regional mathematics prize winner at middleschool and highschool	2009, 2011, 2012

SELECTED TALKS

Toulouse Data Science Meetup	28/05/2019
PyData Amsterdam 2019	11/05/2019
Toulouse Data Science Meetup	22/03/2016

HOBBIES

- Modern art
- Running
- Cooking
- Reading
- Programming
- Travelling