

Adeline Fermanian

PhD student in statistics

13 rue de Douai

75009 Paris

France

+336 83 38 74 59

✉ adeline.fermanian@upmc.fr

 [adelinefermanian](https://www.linkedin.com/in/adelinefermanian)

Education

- November 2018-Present **PhD in statistics**, *LPSM - Sorbonne Université*, Paris, France.
Funded by DIM MathInnov. Research topic: Signature, rough paths and statistical learning. Supervisors: Gérard Biau and Benoît Cadre.
- 2017-2018 **Master of science in statistics**, *ETH*, Zürich, Switzerland.
Key subjects: mathematical statistics, computational statistics, stochastic calculus.
- 2014-2016 **Bachelor in engineering**, *CentraleSupélec*, Châtenay-Malabry, France.
- 2012-2014 **Intensive 2-year university level preparation in maths and physics**, *Lycée Henri IV*, Paris, France.
- 2009-2012 **Scientific Baccalaureate specialising in mathematics**, *Lycée Condorcet*, Paris, France.

Experience

Vocational

- June 2018 - **Master thesis**, *LPSM - Sorbonne Université*, Paris, France.
- October 2018 Wrote a master thesis on the signature method in machine learning. Reviewed existing literature on dimension reduction techniques for data streams. Compared the performance of the signature transformation on several datasets.
- February 2017 - **Graduate researcher**, *Inria - Wolfgang Pauli Institute*, Vienna, Austria.
- July 2017 Studied deterministic and stochastic models of division of bacteria. Developed a web application (Python) for biologists to test different models on real-world data. Supervisor: Marie Doumic.
- August 2016 - **Data Scientist**, *Multiposting group - SAP*, Paris, France.
- January 2017 Developed machine learning algorithms for salary prediction using a database of millions of job ads. Studied natural language processing for job ads classification and normalization. Coded in Python.

Projects

- February-June 2018 **Statistical consulting project**, *Seminar for Statistics - ETH*, Zürich, Switzerland.
3-people group project in collaboration with Zürich children's hospital. Analyzed a dataset to predict secondary displacement of phalangeal fractures.
- 2016 **Project "Neurofeedback with Arduino Microcontroller"**, *LISA - Ecole Centrale Paris*.
Investigated the use of cerebral waves detected with a MindWave Mobile Headset: controlling a robot and analysing quality of sleep. The project was awarded the innovation prize from the "Coordination jeunes promotions" association.
- 2014-2015 **Project "Analysis of the walk from a big database"**, *CMLA - ENS Paris Saclay*, Cachan, France.
Developed statistical tools for diagnosis of walk pathologies.

Miscellaneous

- July-August 2015 **Assistant head of a food distribution center**, *Août Secours Alimentaire*, Paris, France.
Supervised a food distribution center for people living in precarious conditions. Managed a team of 20 volunteers, including disabled workers.
- 2015 **President**, *Artistic student association at Centrale Paris*, Châtenay-Malabry, France.
Organized an artistic festival with a budget of 15000 €. Managed a 30-persons team. Initiated the development of an innovative and electronic ticketing for cultural events in Paris.

Computer skills

- Software Latex, Word, Powerpoint, Excel
- Languages Python (Pandas, scikit-learn and django libraries), R, Apache Solr, MySQL, Matlab.

Language skills

- | | | | |
|--------|----------------------|---------|----------------------------------|
| French | Mother tongue | English | Fluent (C1, TOEFL IBT : 106/120) |
| German | Intermediate (B1-B2) | Spanish | Elementary (A2) |

Personal interests

- Music Municipal Conservatory of Music in Paris from 2002 to 2012 : studied piano, solfeggio, musical writing and choral singing. Performed many concerts.