

19 rue des chaussetiers, 63000, Clermont-Ferrand  
FRANCE

📞 +336 64 89 31 60

✉ remi.boutin.stat@gmail.com

<https://remi-boutin.github.io>

28 years old



# Rémi Boutin

## Research

- 2020–2023 **PhD, MAP 5, Université Paris Cité**, under the direction of Pr. Pierre Latouche and co-direction of Pr. Charles Bouveyron, Deep probabilistic models and inference strategies for the analysis of networks with textual-edges
- 2020 **Research internship**, Université Paris Cité, under Pr. Pierre Latouche's supervision, Graphical model and neural topic model for cluster detection in a network with textual edges  
*3 months*
- 2019 **Research assistant**, Argonne National Laboratory, Chicago, USA, under Dominik Korowski's supervision, Creation of a generative model of car speed profile based on the WaveNet architecture  
*6 months*

## Publications

- 2023 **Embedded topics in the stochastic block model**, joint work with Pierre Latouche and Charles Bouveyron, Statistics and Computing
- 2023 **The Deep Latent Position Topic Model for Clustering and Representation of Networks with Textual Edges**, joint work with Pierre Latouche and Charles Bouveyron, Pre-print Hal

## Education

- 2017–2020 **Engineer in statistics, ENSAE Paris**, Major: data science; minor: statistical learning
- 2016–2017 **Master 1 Université Paris 1 - Panthéon Sorbonne**, Major: applied mathematics; minors: economics, with highest honour
- 2013–2016 **Bachelor Université Paris 1 - Panthéon Sorbonne**, Applied mathematics to social sciences, with highest honour
- 2013 **Baccalaureate Sciences major, Highschool Descartes Antony**, speciality mathematics, with distinction

**Languages** French native language, English fluent

**Computer science** Python ●●●●○ Pytorch ●●●●○ Keras ●●●●○ R ●●●●○ C ●●●○○○

## Course contents

**Majors**, Statistical learning, Monte Carlo and sequential Monte Carlo, Bayesian statistic, optimisation, optimal transport, neural networks, measure and probability theory, econometrics, analysis, time series, algebra

**Minors**, Macroeconomics, microeconomics

## Work experiences

- 2020-2022 **Seminal supervisor of Probability**, Technological Institute of Université Paris Cité, 1<sup>st</sup> year students
- 2019-2020 **Private lessons for bachelor students**, 2<sup>nd</sup> year of bachelor degrees in applied mathematics, in analysis and algebra
- 2018–2019 **Data Scientist internship**, Saint-Gobain Paris, FRA, under Nawaaz Peerbocus' supervision, 6 mois  
Identification of the causes of flaws in glass production
- 2017–2018 **Mathematical tutor**, Université Panthéon Sorbonne, for students in 1<sup>st</sup> and 2<sup>nd</sup> year of bachelor's degree in applied mathematics

2017–2018 **Applied statistics project**, *ENSAE Paris*, under Claude Petit’s supervision, Detection of important twitter accounts in the political landscape, based on a random walk and MCMC inference after *scrapping* Twitter

2017 **Hackathon ENSAE Paris and EMMAÛS Connect**, *Creation of a neural network classifier for automatic image annotation*

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## About my interests

**Arts** Movies (festival of short-movies), literature (Classic, polar, SF)

**Sports** Fencing (regional referee), (mountain) bike

**Voyages** Mongolia, China, USA, Italia, Spain *From now on, I avoid taking the plane as much as possible*

**Daily life** Climate (change), comedians