ANTOINE BICHAT

Mathematical Engineer - PhD Student in Biostatistics

■ antoine.bichat@mines-nancy.org

EDUCATION

2020

PhD

Paris area. France

Discovering multi-scale metagenomic signatures through hierarchical organization of species. Tutored by Dr Christophe Ambroise, Dr Mahendra Mariadassou and Mr Jonathan Plassais

2017 | 2016 Mathematics of Modelling Master's degree

Sorbonne Université Paris, France

• Applied Mathematics for Biology and Medical Sciences

• Data Science

2017 | 2014 Graduate Engineering School

Mines Nancy

Nancy, France

· Mathematical engineering

Bioengineering

Classe Préparatoire aux Grandes Écoles

Lycée du Parc, MP*

Q Lyon, France

PROFESSIONAL EXPERIENCE

2017

Biostatistician intern

Nestlé Research Center Quasanne, Switzerland

- Data analysis of microbiome 16S sequencing
- Implementation of DADA2 pipeline for sample inference

2016

Biostatistician intern

Enterome

Paris, France

- Data analysis of microbiome Illumina next-generation sequencing
- Writing and automation of bioinformatics quality control report

***** TEACHING EXPERIENCE

2020

Data Science Starter Program

École Polytechnique, 21h, continuing education • Paris area, France

2019

An Introduction to the Linear Model

AgroParisTech, 40h, engineering students Paris, France

2018 2017

Visualization with R

Mines Nancy, 3h, engineering students

Nancy, France



INFO

- A Paris
- abichat.github.io
- in antoinebichat
- @_abichat
- @abichat
- **3** 1993

LANGUAGES

- French (mother tongue)
- English (fluent C1, IELTS)
- Italian (proficient B2, CILS)
- German (beginner B1, ZD)

TECHNICAL SKILLS

Highly skilled in R, tidyverse and visualization

Skilled in Python, Matlab, LaTeX and Office

Knowledge in C++, HTML and CSS

▼ SCIENTIFIC PRODUCTIONS

Incorporating phylogenetic information in microbiome abundance studies has no effect on detection power and FDR control

Published in Frontiers in Microbiology

Antoine Bichat, Jonathan Plassais, Christophe Ambroise and Mahendra Mariadassou

Quantifying the impact of tree choice in metagenomics differential abundance studies with R

Poster for UseR! 2019

◆ Toulouse, France

• Winner of Biostatistics poster prize

Impact of tree choice in metagenomics differential abundance studies

Talk at SPMGD & JdS

Parcelona, Spain & Nancy, France

VOLUNTEER WORK

2020 • • related activities

Involved in the R community

Paris, France

- Treasurer of MolieR (French association for the promotion of R)
- Active member of *State of the R* (AgroParisTech R users group)
- Organizing Committee for SatRday Paris 2019
- Organizing Committee for Rencontres R Paris 2020/21

2017 • During Engineering School

Mines Nancy

Nancy, France

2014

2019

2019

2018

- Academic year-group representative
- Student member of the Executive Board of Mines Nancy
- President of the debating and conference club
- Communication Officer for the recruitment forum of Mines Nancy

2014 • UDPS 69 (first aid association)

First aid worker, lifeguard

♠ Lyon area, France

2014 | 2011