

KHALED LARBI

Administrator of Insee - Graduate student at Ensae Paris

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in www.linkedin.com/in/khalarbi April 30th 1995 in Roubaix (59) Nationality : French



EDUCATION

Graduate level engineering school

Ensae Paris

2020 - 2022 Palaiseau (91)

Key subjects : Statistics, Economics, Econometrics and Data science

MSc in statistics and econometrics

Ensai (civil servant program)

2014 - 2017 Bruz (35)

Dissertation on the population forecast model used by the French national statistic institute.

Key subjects : Survey sampling theory, Time series and Machine learning.

BSc in applied economics

Université de Paris Dauphine

2015 - 2016 Paris (75)

Courses followed at the same time of my second year at Ensai.

BSc in mathematics

Université de Rennes 1

2014 - 2015 Rennes (35)

Courses followed at the same time of my first year at Ensai.
With high honours

CPGE MPSI / MP*

Lycée Henri Wallon

2012 - 2014 Valenciennes (59)

Two-year intensive program preparing for the national competitive exam for entry to engineering schools.

PROFESSIONAL EXPERIENCE

Junior lecturer

Ensai

August 2019 - August 2020 Bruz (35)

- Teaching at undergraduate and graduate levels :
 - Courses about SAS software (beginners and advanced users)
- Teaching assistant of calculus, algebra, regression , exploratory data analysis, inferential statistic, statistical tests, R software courses.
- In charge of statistical projects (graduate students) :
 - Recruitment of thirty statisticians/supervisors.
 - Coordination and set up of all defenses.
- Supervisor of an internship during a month.
- Supervisor of a statistical project during five months.

ABOUT ME

"I'm very interested in statistics, machine learning and theirs applications to others fields (economics, social science ...) "


COMPUTER SKILLS

R	● ● ● ● ●
Python	● ● ● ● ●
SAS	● ● ● ● ●
Stata	● ● ● ● ●
MS Office	● ● ● ● ●

STATISTICAL SKILLS

Linear regression	
Decision trees (CART)	Random forests
SVM	
Dimension reduction (PCA, CA, MCA, ...)	
Time series	Survey sampling theory
Introduction to NLP	Machine learning

TEACHING

 **Courses given at Polytech'Lille**
September - October 2018
Courses about PCA, CA, MCA - 30 heures

 **Tutorials given at Ensai**
February - April 2018
Tutorials about exploratory data analysis - 36 hours
September - October 2018
Tutorials about linear regressions - 36 hours

Methodologist

Regional office of French national statistic institute

📅 Mars 2017 - Août 2019

📍 Lille (59)

- Production of statistical tools in order to provide local economics studies :
 - Statistical tools on dependent elderly people forecast yearly until 2050 for each département.
 - Statistical and computational works on the population forecast model used by Insee (French NSI)
- Participation in workgroups
 - Works on utilisation of R in developpement chains
 - Works to encourage statisticians to use R instead of SAS
- Studies on population forecast.
- Trainer in utilisation of R software.
- Adviser in statistics.

PUBLICATIONS

📄 Non academic publications

- K. Larbi, D. Roy (2019). "4 millions de seniors seraient en perte d'autonomie en 2050". In: *Insee Première* 1767.
- J. Fabre, K. Larbi (2018). "Évaluation de la robustesse d'une projection de population". In: *Actes des JMS* 13.

HOBBIES



Vulgarisation

Project of founding a website which deals with vulgarisation about statistics and econometrics



Travels



Board games



Badminton

LANGUAGES

French

Native

English

Intermediate/professionnal
TOEIC (May 2015) : 800

Spanish

Basic

ACADEMIC PROJECTS

Interpretability methods for Deep Learning algorithms in NLP field

Société Générale

📅 November 2020 - on going

Realised with C. Francon and W. Sanchez.

Prediction of the value of real estates in Paris

Ensaе

📅 Septembre 2020 - on going

Realised with W. Sanchez.