

Kim Antunez

Provisional Senior Officer for the French National Institute of Statistics (INSEE) studying Statistics, Economics and Computer Science



EDUCATION

Today
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2019

Leading National Engineering School of Statistics and Economic Administration (ENSAE)

Paris, France

2014
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2012

National School of Statistics and Information Analysis (ENSAI)

Rennes, France

Academic degrees

- **Master's Degree in Statistics-Econometrics** [Master 2] (Official Statistics Speciality), ENSAI – Rennes 1 University, 2015 [With Honors]
- **Bachelor's Degree in Economics** [Licence 3], Paris Dauphine University, 2014
- **Bachelor's Degree in Mathematics** [Licence 3], Rennes 1 University, 2013
Master Thesis : "Determinants of House Prices" (Spatial Analysis and Econometrics)

2010
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2012

Post-secondary preparatory classes in Mathematics and Physics [Lycée Pierre Corneille]

Rouen, France

Coursework

- **Statistics:** Probability, Measure and Integration Theories, Inferential Statistics, Statistical Tests, Optimisation Techniques
- **Data Science:** Descriptive Statistics, Supervised Learning, Clustering, Machine Learning, Textual Analysis, Survey Design, Survey Sampling, Econometrics, Spatial analysis, Cartography, Time Series
- **Economics & Social Sciences:** Macroeconomics, Microeconomics, Game Theory, Sociology, Demography, Public Policies Evaluation
- **Computer Science:** Computer-based algorithms and various programming languages

Programming languages and software

- **Statistics:** R, Python, SAS, Stata
- **Computer Science:** UML, C++, Java, mobile application development (Android), SQL, Git
- **Desktop:** Microsoft Office Suite (including Visual Basic Language) and LibreOffice equivalents, LaTeX
- **Design:** PhotoFiltre, Adobe Illustrator, HTML, CSS

Personal Information

- 🇫🇷 French
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- 🌐 [kantunez](https://www.linkedin.com/in/kantunez)
- 🐙 github.com/antuki

After five years of professional experience in official statistics, I am back in school to complete my training to become a Senior Officer for the French National Institute of Statistics and Economic Studies (INSEE), after recently passing the internal competitive exam.

Passionate about open data and open source, I've worked on different personal projects using R (statistical software). I am looking for a three-month summer internship starting in June 2020 to improve and further develop my knowledge in IT implementation of statistical methods and tools.

WORK EXPERIENCE

2019
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2017


● **Research Officer (Social and Health Fields)**

French Ministry of Health and Solidarity  Paris, France

- Statistical studies mainly using the French Opinion Barometer
- Follow-up of an experiment on non-take-up of social benefits, questionnaire design, evaluation of public policies
- Member of the committee "Moving from SAS to R software"

2017
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2015

● **Research Officer (Spatial Field)**

Prime Minister's Office, Directorate of Equality for Territories
 Saint-Denis, France

- Responses to Ministerial Requests on equality of territories
- Expertise on territorial official data sources
- Regular update of the website database "Observatory of regions" (more than 500 indicators and 30 zonings)
- Studies involving statistical and spatial analysis (autocorrelation, spatial models, typologies, maps)

● **Teaching**

- *"Spatial Data and Cartography with R"*, satRday Paris 2019. [En]
- *"Geovisualisation with R"*, summer school 2018 "Massive Spatial Data" of the LabEx DynamiTe. [En]
- Internal courses in R for my work teams (2016-2019). [Fr]
- Teaching Assistant in R and LaTeX at ENSAE (2015-2016). [Fr]

PRODUCTIONS


● **Oral Interventions**

- *"Dealing with the Change of Administrative Divisions Over Time"*, useR! Toulouse 2019. [En]
- *"Manipulation of Data at a Municipality Level in History"*, 7th French R meeting, 2018. [Fr]
- *"Cartography with R"*, Meet-up RLadies Paris, 2018. [En]

● **Scientific Publications**

My publications mainly concern:

- **French opinion on social issues**
- **Spatial analysis about territorial disparities**

A dozen of publications, mainly in French, are available on my LinkedIn . One is also in English:

- *"Disparities and Territorial Discontinuities in France with its New Regions: A Multiscalar and Multidimensional Interpretation"*, Economics and Statistics n°497-498 - 2017, Insee, 2018. With Brigitte Baccaïni, Marianne Guérois and Ronan Ysebaert.

Open Data & Open Source

Web application (R Shiny): interactive graphs of the French Opinion Barometer results.

COGugaison: R package for manipulating French spatial databases produced at different dates.

CARTElette: R package for creating geographical layers that correspond to the situation of the division of the French territories of each year.

Languages

French: Native

English: Full professional (TOEIC, 880 and IELTS, 7.5)

German: Limited working (WiDaF, B2/C1)

Spanish: Limited working