

Antoine Clais

Data Scientist - Ph.D in Mathematics

✉ antoine@math-clais.ovh
www.math-clais.ovh
French

Achievements

- Data scientist with experience in *correction of biased data*.
- Postdoctoral Fellow at the *Technion* - Israel Institute of Technology.
- Four research articles in *Geometric Group Theory*, a fast developing topic with connections with computer science and cryptography.
- More than twenty invitations to give talks, to conferences or to collaborate.

Skills

- Programming, *Python* (professional project), *MATLAB*, *SQL* (student projects).
- Pure Mathematics, *Group theory and Geometry*.
- Probabilities and Statistics, *Markov chains, Martingales, Bayesian inference*.
- *LaTeX*, *Asymptote*, *Inkscape*, experienced user.

Experience

- 09-10 2016 **Data Scientist**, *SCL Group*, sample bias correction algorithm.
Improving the tools used by **SCL Group** to correct surveys. **Python** implementation.
- 09-10 2016 **ASI Fellow**, Highly selective program of **Data Science**.
Intensive trainings on neural networks, random forests, SVM, logistic regression. Applications with **Python** (**scikit-learn**) and **SQL**.
- 2015 - 2016 **Postdoctoral Fellow**, *Technion - Israel Institute of Technology*.
This position led to two publications in international journals.
- 2014 - 2015 **Attaché Temporaire d'Enseignement et de Recherche**, *Université de Lille*.
Researcher at the *Laboratoire Paul Painlevé* as a member of the Geometry and Dynamics team.
Organiser of the weekly team seminar and of **two mathematics conferences**.
- 2012 - 2015 **Teaching Assistant at the engineering school Télécom Lille**.
1st and 2nd year of bachelor degrees including **probabilities and statistics**.

Education

- 2011 - 2014 **Ph.D Fellow**, *Université de Lille*, under the guidance of Prof. M. Bourdon.
Title of the thesis: Right-angled buildings and combinatorial modulus on the boundary.
- 06 2012 **Passed the Agrégation de Mathématiques**.
Highest level of national competitive exam on general mathematics in France, with optional subject: **Computer-assisted probabilities and statistics (MATLAB)**.
- 2009 - 2011 **Master's Degree in Mathematics**, *Université de Lille*.
Including courses on **probabilities and statistics**.
- 2005 - 2007 **Engineering Student (computer science and electronics)**, *Supélec*, Rennes.

Various

- French, English and Spanish.
- Involved in the French educational and mathematical communities, as a member of the Société Mathématique de France and the Société des agrégés de l'Université.
- Organiser of cultural meetings, for Ph.D students during one year.
- Literature, *proustian*.