

Noé Gaumont

Ph.D. student at Université Pierre et Marie Curie

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Education

- Since **Ph.D. student**, *Université Pierre et Marie Curie*, in the ComplexNetwork team, LIP6.
- October 2013 *Subject*: Community detection in link streams. Link stream provide a new way to understand temporal networks. A link stream is a sequence of timed interactions between two entities, like email exchanges. In this context, a community should be a dense sub-stream, *e.g.* a discussion instead of a group of friends in the case of mails.
- Sept 2008 - **Engineering school**, *Université de Technologie de Compiègne*, in Computer Science.
- July 2013 IT project examples carried out during my university training:
- Development in C++ of meta-heuristics to solve the 2D bin packing problem under guillotine constraints.
 - Development of the simplex algorithm in scilab.
 - Decentralized chess game developed in Java with 23 people.
 - Development of a Gephi plugin to solve the multi-source vehicle routing problem with heuristics.
 - Conception of a Tower Defense game in C++ and Qt.
- June 2008 **Baccalauréat S**, mathematics specialty, with honors in lycée *Fulbert* in Chartres (final French high school diploma).

Professional Experience

- Feb 2013 - **Internship**, *Thales Air System in the Innovation Lab*, Rungis.
- July 2013 Study and optimization of flight plan predictions on specific way-points.
Key concepts: machine learning, data extrapolation. *Languages*: C++, R.
- Sept 2011 - **Internship**, *Commissariat à l'énergie atomique (CEA)*, Brétigny-sur-Orge.
- Feb 2012 Creation of an algorithm able to generate quadrilateral mesh under a vector field constraint and geometric constraints. *Key concepts*: paving mesh generation, finite element. *Language*: C++.
- Jan 2009 - **Worker internship**, *Sealed Air - quality department*, Épernon.
- Feb 2009 Product control within the scope of quality check and communication with clients.
- April 2010 - Exchange program in Germany at the Technische Universität Hamburg-Harburg (TUHH).
- Aug 2010 Introduction to the finite element method and to the structural aspect of planes.

Technical skills

- Mathematics Graph theory, mathematical optimization, meta-heuristics, constrained programming, Markov chain, distributed algorithm, basics in cryptography.
- Computer **Programming**: C++, Python, Java, R, Prolog, Lisp, PostgreSQL, bash.
Web: (x)HTML, JavaScript, CSS, PHP, FirefoxOS.
Software: Git/svn, Gephi, Scilab, Prelude ERP, Witness, Visual studio.
Other: Agile software development, UML modeling, Linux server administration, L^AT_EX.

Language skills

- French Mother tongue
- English European level C1. Good working knowledge.
◦ *TOEIC score in 2012: 960/990.*
- German European level B2. Reasonable working knowledge.