

Noé Gaumont

Ph.D. student at Université Pierre et Marie Curie

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Professional Experience

- 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.
- 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++.

Education

- 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 a group of 23 people.
 - Conception of a Tower Defense game in C++ and Qt.
- June 2008 **Baccalauréat S**, mathematics specialty, with honors in lycée *Fulbert* in Chartres.

Technical skills

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

Publications

Noé Gaumont and François Queyroi. Partitionnement des Liens d'un Graphe : Critères et Mesures. In *ALGOTEL 2014 – 16èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*, pages 1–4, 2014.

Noé Gaumont, François Queyroi, Clémence Magnien, and Matthieu Latapy. Expected Nodes: a quality function for the detection of link communities. In *Complex Networks VI*, Studies in Computational Intelligence. 2015.

Language skills

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

Interests

Open-source software (Mozilla), strong involvement in association, sport(bouldering, badminton), video-game.