

# 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, basics in cryptography.
- Computer **Programming**: C++, Python, Rust, Lisp, PostgreSQL.  
**Software**: Git/svn, Gephi/Tulip, Scilab.  
**Web**: HTML, JavaScript, CSS, PHP.  
**Other**: Agile software development, UML modeling, Linux server administration.

## 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.

## Training

- School on structure and dynamics of complex networks (2 weeks)
- Rescom 2014 : Network Science (1 week)

## Teaching

- Eléments de programmation en C (≈ 40h)
- Introduction aux Bases de Données (≈ 20h)

## Language skills

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

## Interest

Open-source software (Mozilla), sport (bouldering, badminton).