Noé Gaumont

Ph.D. student at Université Pierre et Marie Curie

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Professional Experience

Since October 2013	**Ph.D. student**, *Université Pierre et Marie Curie*, in the ComplexNetwork team, LIP6. *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 - July 2013	**Internship**, *Thales Air System in the Innovation Lab*, Rungis. Study and optimization of flight plan predictions on specific way-points. *Key concepts:* machine learning, data extrapolation. *Languages:* C++, R.
Sept 2011 - Feb 2012	**Internship**, *Commissariat à l'énergie atomique (**CEA**)*, Brétigny-sur-Orge. 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 - July 2013	**Engineering school**, *Université de Technologie de Compiègne*, in Computer Science. 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. **Web:** (x)HTML, JavaScript, CSS, PHP. **Software:** Git/svn, Gephi/Tulip, Scilab, Prelude ERP, Witness. **Other:** Agile software development, UML modeling, Linux server administration, LaTeX.

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)
○ Training "Médiatisation des connaissances"

Teaching

○ Eléments de programmation en C ($\approx$ 40h)
○ Introduction aux Bases de Données ($\approx$ 20h)

Language skills

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

Interest

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