Strozecki Yann

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Education

2007-present **PhD Student in computer science (complexity and logic)**, *Paris Diderot University, Equipe de Logique Mathématique*, Paris, France.
Under the supervision of A. Durand

2006-2007 **Master of mathematical logic and foundations of computer science**, *Paris Diderot University*, Paris, France.

2003-2007 **ENS Lyon**, *Ecole Normale supérieure de lyon*, Lyon, France.
General education in mathematics and computer science

2001-2003 **Lycée Charlemagne**, Paris, France.
Preparation for the entrance to "Grandes Écoles"

Experience

2007-2009 **Organizer of the student seminar**, *Paris Diderot University, Equipe de Logique Mathématique*.

2007-2009 **Representative of the students**, *Paris Diderot University, Equipe de Logique Mathématique*.

2006-2007 (4 months) **Master's thesis**, *Paris Diderot University, Equipe de Logique Mathématique* , Subject: Holographic algorithms, supervised by Arnaud Durand.

2005 (2 months) **Internship**, *Universitat Paderborn, Algebraic complexity and Algorithmic Algebra*, Subjects: Fast matrix multiplication by group representation techniques, Traveling salesman in an algebraic model, supervised by Peter Burgisser.

2004 (2 months) **Internship**, *IMJ*, Théorie des groupes représentations et applications. Subject: Orbits of Nilpotent Matrices and Group representations, supervised by Jean-Yves Charbonnel

Languages and Computer Skills

Languages Native French, fluent English, basic German.

Programming LaTeX, Java, C, OCaml, Coq .

Research Themes

- Complexity of enumeration
- Matroid decomposition
- Logic on finite structures
- Complexity of computing/interpolating polynomials
- Polynomial identity testing

Teaching

2010 **Elements of algorithmic (EA4)**, *Licence in Computer Science, Paris 7-Diderot University*, Paris, France.
Practicals (32h per year).

2010 **Elementary background in logic and mathematics for computer science (PF1)**, *Licence in Computer Science, Paris 7-Diderot University*, Paris, France.
Lectures (32h per year).

2009 **Data types and object in java (IF2)**, *Licence in Computer Science, Paris 7-Diderot University*, Paris, France.
Practicals (64h per year).

2007 **Introduction to computer science and programming (IF1)**, *Licence in Computer Science, Paris 7-Diderot University*, Paris, France.
Practicals (64h per year).

2006-2007 **Oral examination in mathematics**, *Preparation for the entrance to "Grandes Écoles",Lycée Charlemagne*, Paris, France.
Oral examination (64h per year)

Selected Communications

Coming (August 2010) **Decomposition of hypergraphs**, *Workshop in Logic, Combinatorics and Computation*, Brno, Czech Republic .
Invited talk

February 2010 **Matroid decomposition**, *Séminaire de l'équipe AIGCo du LIRMM*, Montpellier, France.
Invited talk

January 2010 **Polynomial interpolation and enumeration**, *Séminaire du LAIC*, Clermont-Ferrand, France.
Invited talk

December 2009 **Matroid decomposition**, *Séminaire du groupe Graphes et logique du LABRI*, Bordeaux, France.
Invited talk

December 2008 **Introduction to complexity**, *Séminaire des thésards de l'équipe de logique* , Paris, France.
Invited talk

October 2007 **Holographic algorithms**, *Groupe de travail MC2 de l'ENS Lyon*, Lyon, France.
Invited talk

Submitted Articles in Complexity

[S1] Y. Strozecki. A logical approach to decomposable matroid. *Discrete Applied Mathematics*.

[S2] Y. Strozecki. Enumeration of the monomials of a polynomial and related complexity classes. In *Mathematical Foundation of Computer Science*, 2010.

[S3] D. Duris and Y. Strozecki. On the complexity of two acyclic subhypergraphs problems. In *European Symposium on Algorithms 2010*, 2010.

Manuscripts and Techreports

[M4] Y. Strozecki. Algorithmes holographiques. Master's thesis, Université Paris Diderot, 2007.

Sidework: Submitted Article in Image Processing

[I5] J.Salmon and Y. Strozecki. From patches to pixels in semi-local methods: Weighted average reprojection. *Transaction on Image Processing*.

[I6] J.Salmon and Y. Strozecki. From patches to pixel in non-local methods: Weighted-average reprojection. In *International Conference on Image Processing*, 2010.