



Grégory Châtel

Curriculum Vitae

Education

- 2012–2015 **PhD in Computer Science**, *University Paris-Est*.
Title: Algebraic combinatorics on order of trees. 3 published articles, 1 submitted. 18 talks (7 of them in international conferences). 193h of teaching in Bachelor's degree.
- 2010–2012 **Master's degree in Computer Science**, *University Paris-Est*.
Combinatorics, Algorithms and Bioinformatics.
- 2007–2010 **Bachelor's degree in Mathematics & Computer Science**, *University Paris-Est*.
Top 5% student, merit scholarship.

Work experience

- 2011–present **Open source development: Sage mathematical software**.
8 patches: algorithms implementations / improvement, documentation improvement, code review.
- 2015–2016 **Temporary Computer Science researcher and teacher**, *University Paris-Est*.
96h of teaching in Bachelor's degree and engineering school.
- 2011 **Internship in Algebraic Combinatorics team**, *University Paris-Est*, 6 months.
Exploration of a conjecture on an algorithm on standard Young tableaux.
- 2011 **Internship in Algorithms team**, *University Paris-Est*, 4 months.
Minimization of branching automata (mathematical model for parallel computing).
- 2010 **Internship in Algorithms team**, *University Paris-Est*, 3 months.
Determinization of branching automata.

Teaching

- Theory **Data structures ; sorting, tree, graph and evolutionary algorithms ; compilers ; language theory (automata, regular expressions).**
- Practical **C & Python programming ; databases ; computer architecture ; compilers ; shell scripting.**

Technical skills

- Languages C, Python, Java, Netwide assembler, Shell scripting, Lex, Yacc.
- Web HTML5, CSS3, \LaTeX .
- Databases MySQL, PostgreSQL.
- OS GNU/Linux, system programming.

Languages

- French **Native**
- English **Intermediate** *Conversationally fluent*

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