Maxime SENOT
Curriculum Vitæ

PhD in Computer Sciences
Certified in Mathematics
Born on: 05/03/1983 in Dole (France)
Nationality: French

Current situation: Temporary Attached to Teaching and Research at LACL
(Algorithmic, Complexity and Logic Laboratory of Créteil)
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Academic formation

2009 – 2013 **PhD in Theoretical Computer Sciences (with government financial support).**
Theoretical Computer Sciences Lab of Orléans (LIFO), University of Orléans, France.
PhD thesis done under the supervision of Pr. **Jérôme DURAND-LOSE.**
Thesis entitled *Geometrical Model of Computation: Fractals and Complexity Barriers.*
Defended on June 27th, 2013 with a jury composed by:

- Mr. Géraud SÉNIZERGUES, Professor, LaBRI, University of Bordeaux I, *president of jury*.
- Mrs. Véronique TERRIER, Assistant professor HDR, GREYC, University of Caen, *rapporteur*.
- Mr. Jean-Baptiste YUNÈS, Assistant professor HDR, LIAFA, University Paris 7, *rapporteur*.
- Mr. Denys DUCHIER, Professor, LIFO, University of Orléans, *examiner*.
- Mr. Jérôme DURAND-LOSE, Professor, LIFO, University of Orléans, *PhD advisor*.

2008 – 2009 **Master's degree 2nd year in Mathematical Logic and Foundation of Computer Sciences (LMFI).**
University Paris Diderot - Paris 7, France.
Internship supervised by Boban VELIČKOVIĆ and done in the Logic Team of Paris Diderot - Paris 7.
Subject: Determination of analytic games.

2007 – 2008 **CAPES of Mathematics (certification for teaching in high schools).**
University Paris Diderot - Paris 7, France.

2005 – 2006 **Master's degree 1st year in Fundamental Mathematics.**
University Paris Diderot - Paris 7, France.

2004 – 2005 **Bachelor's degree 1st year in Philosophy.**
Arts University of Franche-Comté, Besançon, France.

2002 – 2003 **Bachelor's degree in Fundamental Mathematics.**
Sciences University of Franche-Comté, Besançon, France.

2000 – 2002 **Preparatory lectures for great schools competitive exam entry (Mathematics and Physics).**
Highschool Victor Hugo, Besançon, France.

1999 – 2000 **Scientific Baccalaureate (speciality Mathematics).**
Highschool Charles Nodier, Dole, France.

Academic positions

2014 – 2015 **Temporary Attached to Teaching and Research (ATER), 192H of teachings.**
LACL, Team LCP and Graduate School of Applied Informatics in Management of Créteil.

2013 – 2014 **Temporary Attached to Teaching and Research (ATER), 192H of teachings.**
LIP, Team MC2 and Computer Sciences Departement of École Normale Supérieure de Lyon.

2012 – 2013 **Temporary Attached to Teaching and Research (ATER), 88H of teachings.**
LIFO, Team GAMoC and Computer Sciences Departement of Orléans.

2009 – 2012 **Monitor (teaching duty for PhD student), 192H of teachings.**
LIFO, Team GAMoC and Computer Sciences Departement of Orléans.

Publications*

International conferences	***Computing in the fractal cloud: modular generic solvers for SAT and Q-SAT variants***. TAMC 2012 (rank B, acceptance rate: 46%), proceedings LNCS n°7287, 2012. With Denys DUCHIER and Jérôme DURAND-LOSE. ***Fractal parallelism: solving SAT in bounded space and time***. ISAAC 2010 (rank A, acceptance rate: 42%), proceedings LNCS n° 6506, 2010. With Denys DUCHIER and Jérôme DURAND-LOSE .
International workshops	***Solving Q-SAT in bounded space and time by geometrical computation***. CiE 2011 (rang C), local proceedings, 2011. With Denys DUCHIER and Jérôme DURAND-LOSE. ***Massively parallel automata in Euclidean space-time***. SASOW 2010, proceedings IEEE, 2010. With Denys DUCHIER and Jérôme DURAND-LOSE . ***Discrete signal machines via pretopology***. NCMA 2010 (acceptance rate: 68%), proceedings OCG, 2010. With Vincent LEVORATO .
Other	***Abstract geometrical computation 8: small machines, accumulations & rationality***. Submitted to international journal JCSS (rank A*) since July 2013. With Florent BECKER, Mathieu CHAPELLE, Jérôme DURAND-LOSE and Vincent LEVORATO. ***Geometrical model of computation: fractals and complexity barriers.*** PhD Thesis (in french), 2013. ***Fractals and signal machines***. Draft, 2014.

Teachings

2013 – 2014	**Bachelor's degree 3rd year in Theoretical Computer Science:** Programming Theory (32H, `Coq`); Project 1 (48H, `oCaml`); Architecture (32H); Foundations of Computer Sciences (10H).
2012 – 2013	**Bachelor's degree 1st year in Mathematics and Computer Science:** Algorithmic and Programming (58H, `Java`); Informatics environment (30H, `Linux`).
2011 – 2012	**Master's degree 1st year in Computer Science:** Computability and Complexity (14H TD). **Bachelor's degree 3rd year in Applied Computer Science to Management:** Networks (30H); Information Systems (12H, `WinDesign`).
2010 – 2011	**Master's degree 1st year in Computer Science:** Computability and Complexity (14H). **Bachelor's degree 3rd year in Mathematics:** Data Bases (26H), Architecture of Computers (26H).
2009 – 2010	**Bachelor's degree 1st year in Mathematics and Computer Science:** Algorithmic and Programming (64H, `Java`).

Expertise

Systems	Linux, Windows.
Programmation	oCaml, Java, Shell/Bash, Coq.
Educational	tkGate, WinDesign, QtSpim, Logo.
Langages	French (maternal langage), English (read, written, spoken).
Office	LaTeX, Word, Excel, Powerpoint, GIMP, InkScape.

*Except CiE 2011, all publications are referenced by DBLP. Ranks are the ones given by the Core ranking.

Professionnal experiences

2013 – 2014	Research and teaching, LIP.
2009 – 2013	Research and teaching, LIFO.
March – June 2008	Master internship, Mathematical Logic and Foundation of Computer Sciences.
2006 – 2008	Private tutoring in mathematics, Paris.
2005 – 2006	Operator, mutual company CIMAM-SME.
2004	Technician in water treatment plant, entreprises FRANCE ASSAINISSEMENT and SUEZ.
Summers 2001–02	Stock controller and warehouse clerk, entreprise RIPOTOT.

References[†]

PhD Advisor	**Jérôme DURAND-LOSE**, Professor, LIFO, Orléans.
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Co-author	**Florent BECKER**, Assistant Professor, LIFO, Orléans.
	Contact: florent.becker@univ-orleans.fr
Co-worker	**Michaël RAO**, CNRS full time researcher, LIP, Lyon.
	Contact: michael.rao@ens-lyon.fr

Hobbies

Music	Listening and guitar playing.
Sport	Football, snowboard/ski, ping-pong.

[†] See recommandation letters in attached pieces.