

Curriculum Vitae

Axel HADDAD, born the 18th of April 1988 in Paris.

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Education

2010 -	Computer Science PhD. Topic: Higher Order Recursive Schemes, Adv.: Arnaud Carayol (LIGM) and Olivier Serre (LIAFA)
2008 - 2010	Master MPRI in Computer Science (University Paris 7, Écoles Normales Supérieures of Paris and Cachan, École Polytechnique) with highest honours, rank 11/52
2007 - 2008	Bachelor's degree in Computer Science of ENS Cachan with highest honours
2007 - 2011	Student in ENS Cachan
2005 - 2007	Preparatory School in Lycée Janson de Sailly, Paris
2005	High school diploma with high honours.

Research Internships

Mar.-Jul. 2010	Research internship in LIAFA and LIGM, Advisors: Arnaud Carayol and Olivier Serre, Topic: Qualitative Tree Languages.
Mar.-Jul. 2009	Five months research internship in Universitat Politècnica de Catalunya (Barcelone), Advisor: Albert Atserias, Topic: Graph Polynomials and MMSNP Logic.
Jun.-Jul. 2008	Two months research internship in Edinburg University, Advisor: Kousha Etessami, Topic: Emptiness Problem of 3 States Probabilistic Automata.

Publications

Articles in international journals

- Arnaud Carayol, Axel Haddad and Olivier Serre. *Randomisation in Automata on Infinite Trees*, submitted to the Transactions on Computational Logic.

Articles in proceedings of international conferences or workshops

- Axel Haddad. *Model Checking and Functional Program Transformations*, to appear in Proc. of the IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'13), 2013.
- Axel Haddad. *IO vs OI in Higher-Order Recursion Schemes*, in eighth Workshop on Fixed Points in Computer Science (FICS'12), Satellite workshop to ETAPS 2012, EPTCS 77, pp. 23-30, 2012.
- Arnaud Carayol, Axel Haddad and Olivier Serre. *Qualitative Tree Languages*, in Twenty-Sixth Annual IEEE Symposium on Logic in Computer Science (LICS'11), pp.13-22, 2011.

Thesis

- Axel Haddad. *Shape-Preserving Transformations of Higher-Order Recursion Schemes*, PhD Thesis, defense to be held on December 6th 2013.
- Axel Haddad. *Une Sémantique qualitative pour les automates d'arbres infinis* (FRENCH), Master's thesis, MPRI, University Paris 7, 2010.
- Axel Haddad. *Polynômes, paramètres, et homomorphismes sur les graphes* (FRENCH), Master 1 internship, MPRI, Universitat Politècnica de Catalunya, 2009.
- Axel Haddad. *Décidabilité de la vacuité du langage d'un automate sous-stochastique à deux états* (FRENCH), Bachelor's internship, ENS Cachan, Edinburg University, 2008.

Teachings

2012 - 2013	Network practical sessions (20h) for first year Master in Université Paris-Est Marne la vallée
2012 - 2013	Java practical sessions (20h) in an engineer school (ESIPE-MLV)
2012 - 2013	Algorithmic practical sessions and review session (20h) in an engineer school (ESIPE-MLV)
2011 - 2012	Computer Programming practical sessions (20h) for first year Bachelor in Université Paris-Est Marne la Vallée
2011 - 2012	Java practical sessions (20h) in an engineer school (ESIPE-MLV)
2011 - 2012	Algorithmic practical sessions (20h) in an engineer school (ESIPE-MLV)
2010 - 2011	Java practical sessions (20h) in an engineer school (ESIPE-MLV)
2006 - 2007	Private Lessons in Mathematics, for High School Diploma

Conference Refeering

FOSSACS 2013, PETRI NETS 2013, MFCS 2013, MSR 2013, RTNS 2013, Information and Computation

Talks

2013	MFV seminar, Brussels, Belgium.
2013	Journées des ANR AMYS et FREC, Marne La Vallée, France.
2012	FixPoint in Computer Science, Tallin, Estonia.
2011	Games for Design and Verification (GAMES), Paris, France.
2011	Logic in Computer Science, Toronto, Canada.
2010	Games for Analysis and Synthesis of Interactive Computational Systems (GASICS), Paris, France.
2010	Groupe de Travail Jeux,GDRIM, Paris, France.
2010	LIAFA verification seminar, Paris, France.
2010	LIAFA automata seminar, Paris, France.

Ph.D Studies Activities

2013	GAMES winter school, Champéry, Switzerland.
2012 - 2013	Reading Group LAAG (Logic, Automata, Algebra and Games), Paris, France.
2012	École Jeunes Chercheurs en Informatique Mathématique, Renne, France.
2011	École Jeunes Chercheurs en Informatique Mathématique, Amiens, France.
2011	GAMES, Paris, France.
2010	GASICS Meeting, Paris, France.
2010	GAMES, Oxford, UK.
2010	School Modelling and Verifying Parallel processes (MOVEP), Aachen, Germany.