Mathias Millet

Computer science & Mathematics Engineer

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Né le 6 Juin 1989
Marié, 1 enfant

Education

2014 – 2016	**Préparation à l'agrégation de mathématiques**, *ENS Bretagne*.
2010 – 2014	**Computer science Master**, *ENS Bretagne*.
2007 – 2010	**CPGE**, *Lycée Champollion*, Grenoble(38), sections MPSI puis MP*.

Work experience

2017	**Junior mathematics teacher**, *Collège Françoise Dolto*, Pacé(35).
2016	**Junior mathematics teacher**, *Lycée Anita Conti*, Bruz(35).
2014	**5 months Research Internship – BEAGLE Team – INRIA**, *Lyon*.
	Modeling, simulation and analysin results, in the artificial life domain.
	Supervision : Dr C. Knibbe et H. Soula.
2012	**3 months Research Internship – Aarhus University**, *Danemark*.
	Formal proofs in coq of semantic properties of a programming language.
	Supervision : Dr E. Ernst.
2011	**3 months Research Internship – IBIS Team – INRIA**, *Grenoble*.
	Comparing models and estimating parameters from experimental data, Matlab.
	Supervision : Dr S. Berthoumieux et Dr H. de Jong.
2010	**1 month internship – Martin Bencsik – Nottingham Trent University**.
	Programming and designing of a UI for a Matlab program.
	Identification of the honey bee swarming process by analysing the time course of hive vibrations. Bencsik M, Bencsik J, Baxter M, Lucian A, Romieu J and Millet M, Computers and Electronics in Agriculture, 2011, 76 (1), 44-50.

Skills

Programming	○ Advanced algorithms implementation, complexity analysis.
	○ Practice in many languages (Python, OCaml, C, Java, Javascript, Matlab)
Mathematics	○ Mathematical modeling, problem analysis.
	○ Proving properties of a model.

Knowledge

Computer science	○ Theorical computer science : Algorithms and data structures, theory and semantics of programming languages, mathematical logic, lexical analysis.
	○ Networking : theory and practice in distributed algorithms, P2P routing protocols.
	○ Linux developpement environment.
Mathematics	Advanced general knowledge (French agrégation de mathématiques).
Biology	Knowledge from the two internships in bioinformatics team : general knowledge in genomics and metabolic network of a cell, evolving processes.
Physics	Good general knowledge (French CPGE).

Languages

English	Fluent (955 TOEIC score, Erasmus semester)
German	Some notions