

Monin Benoit

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Education

- 2011–2014 **PhD**, *LIAFA*, University of Paris VII, Paris.
Doctor of Computer Science - with honors
- Algorithmic randomness
 - Higher computability
 - Descriptive set theory
- 2010–2011 **Master II**, *University of Paris VII*, Paris.
Master degree in logic & theoretical computer science - with honors
- Computability
 - Model theory
 - Set theory / Descriptive set theory
- 2001–2006 **Engineer diploma**, *EPITA (computer science school)*, Paris.
Master Degree in computer science - with honors
- Numerical learning
 - Image processing
 - Algorithmic

PhD thesis

- title *Higher computability and randomness*
- supervisor Laurent Bienvenu
- description The thesis deals with algorithmic randomness from the viewpoint of descriptive set theory and higher computability.

Publications

Journal

- title *Higher randomness and forcing with closed sets*
- authors Benoit Monin
- status accepted in Theory of Computing System (2016)

title *Two More characterizations of K-triviality*
authors Noam Greenberg, Joseph Miller, Benoît Monin, Daniel Turetsky
status accepted to Notre Dame Journal of Formal Logic (2015)

title *Continuous higher randomness*
authors Laurent Bienvenu, Noam Greenberg, Benoît Monin
status submitted at Advances in Mathematics

title *Higher randomness and genericity*
authors Noam Greenberg, Benoît Monin
status submitted at London Mathematical Society

title *Π^1_1 -Encodability and Omniscient Reductions*
authors Benoît Monin, Ludovic Patey
status submitted at Notre Dame Journal of Formal Logic

Conferences

title *A unifying approach to the Gamma question*
authors Benoit Monin, André Nies
status accepted to LICS 2015

title *Algorithmic identification of probabilities is hard*
authors Laurent Bienvenu, Benoit Monin, Alexander Shen
status accepted to ALT 2014

title *Higher randomness and forcing with closed sets*
authors Benoit Monin
status accepted to STACS 2014

title *von Neumann's biased coin revisited*
authors Benoit Monin, Laurent Bienvenu
status accepted to LICS 2012

Professional Experience

Teaching

- 2014–now **PostDoc**, Victoria University, Wellington, New Zealand.
Post Doctoral fellow in the school of mathematics, statistic and operation research.
- Research and seminars
- 2011–2014 **PhD student**, *LIAFA*, University of Paris VII, Paris, France.
PhD student in computer science.
- Research and seminars
 - Teaching assistant for college students
- 2003–2005 **Teaching assistant**, *EPITA*, Kremlin-Bicetre, France.
Teaching assistant for programming and algorithmic.
- Teaching C/C++, Delphi, Java, Caml within a twenty people team
 - Conception and correction of many projets for more than 300 students

Other

- 2007–2009 **IT Quant**, *Mitsubishi UFG*, London, UK.
Front office work in an Investment bank.
- Development of a pricing software for exotic derivative products
 - Financial mathematics, stochastic calculus, PDE, MonteCarlo
- 2007 **Intern**, *Siemens C. Research*, Princeton, USA.
(10 months) Research in medical imaging.
- Development of a probabilistic segmentation toolkit for brain 3D images
 - 3D image processing, image registration, hidden markov process
- 2006 **Intern**, *Quantam*, Garches, France.
(6 months) Automatic trading for a hedge fund.
- Developements in C++, java and python for an automatic trading software
 - Numerical optimization, numerical learning, support vector machine

Languages

French Mother tongue
English Fluent

Interests

Leisure Game of go, Poker
Sports Judo, Tennis