

Nicolas Delfosse

Postdoc - UCR/Caltech

Keywords: quantum error correction, quantum computing, fault-tolerance, statistical physics.

French citizen

Birth: December 1st 1985 in Bordeaux

Website: <http://www.its.caltech.edu/~ndelfoss/>

Experience

2015 - **Postdoc at UCR/Caltech - United States**

within Leonid Pryadko's group and John Preskill's group.

2013 - 2015 **Postdoc at University of Sherbrooke - Canada**

within David Poulin's group - Physics department, Sherbrooke

2012 - 2013 **LIX-Qualcomm Postdoc at École polytechnique - France**

within INRIA team GRACE - Laboratoire d'Informatique (LIX), Palaiseau

Education

2009 - 2012 **PhD thesis in pure mathematics** - University of Bordeaux

Construction and performance of quantum LDPC codes, Advisor: Gilles Zémor

2009 **Master of Science in pure mathematics/number theory** - University of Bordeaux

with honors (mention très bien)

2008 **Agrégation de Mathématiques (option calcul formel)**

Teaching

2012 - 2013 **Introduction to Java programming (40h)** - at École polytechnique,

arrays, strings, classes and objects, recursion, linked lists, trees, graph

2011 - 2012 **Numerical Algorithmic in Python for engineers (30h)** - at engineering school ENSEIRB,

python programming, numpy, scipy, approximation problems, finite element method, matrix decomposition, image compression

2011 - 2012 **Discrete Mathematics in 1st year of BSc (35h)** - at University of Bordeaux,

logic, sets, functions, combinatoric, relations

2009 - 2011 **Cryptography and Arithmetic in 3rd year of BSc (70h)** - at University of Bordeaux,

symmetric and asymmetric cryptography, RSA, factorisation, discrete logarithm, DES, AES, hash function and signature

2009 - 2011 **Introduction to Cryptology in 1st year of BSs (60h)** - at University of Bordeaux,

arithmetic, congruence, old cryptography, RSA

2008 - 2009 **Colles in Mathematics (oral examinations)** for undergraduate students (30h)

Lycée Camille Julian à Bordeaux

all the mathematics of the 2nd year of BSc