

Richard Leroy

Date of birth :

22th April 1980
French

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Ph.D. student at the University of Rennes 1 (Ph.D. defense in December, 2008) :

“Certificates of positivity and polynomial minimization in the multivariate Bernstein basis”

under the direction of Marie-Françoise Roy
(Real algebraic geometry, symbolic computation and complexity team)

EDUCATION AND RESEARCH

Degrees

- ✓ 2003 - 2004 : DEA (Master Degree) of Mathematics (algebra and geometry), With Honours Distinction, University of Rennes 1
- ✓ 2002 - 2003 : Agrégation in Mathematics (ENS Cachan)
Competitive examination which trains high school and “classe préparatoire” teachers

Research

- ✓ Certificates of positivity in the multivariate Bernstein basis (in preparation)
- ✓ 2005 : Pre-doc position at the University of Konstanz (Germany)
- ✓ DEA report (advisor : Marie-Françoise Roy) :
Positive polynomials, sums of squares : Semidefinite programming, application to minimization
- ✓ DEA seminar (advisor : Michel Coste, university of Rennes 1) :
An algebraic proof of Schmüdgen’s theorem

TEACHING

- ✓ Since 2007 : ATER at the Universities of Rennes 1 and Rennes 2 :
First degree lectures in Elementary Analysis, Linear Algebra and Probability Theory
Master degree lectures in Symbolic Computation
- ✓ 2004 - 2007: Moniteur (tutor) at the University of Rennes 1 :
First degree lectures in Elementary Analysis, Linear Algebra and Probability Theory
- ✓ 2003 - 2004 : First degree lectures in Probability Theory

SKILLS AND LANGUAGES

Skills

- ✓ Mathematical softwares : Maxima, Maple, Scilab, Latex
- ✓ Systems : MacOS, Linux, Windows
- ✓ Internet, Open Office

Languages

- ✓ French (mother tongue), English (fluent), German (high school level)

INTERESTS AND ACTIVITIES

- ✓ Sports : Tennis, squash, football, swimming
- ✓ Music : Organ and piano

