



Felice Manganiello

Curriculum Vitae

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Personal information

Date of Birth 25.03.1980
Place of Birth Sorengo, Switzerland
Citizenships Swiss and Italian

Education

2006-curr. : Ph.D. Student in **Mathematics**, Zurich University

- Expected defense : **Summer 2011**
- Subject : Algebraic methods in Random Linear Network Coding, Advisor : Prof. J. Rosenthal

1999-2005 : M.S. (Laurea) in **Mathematics**, University of Pisa, Italy

- GPA: 106 out of 110, among the best 10%
- MA thesis : Calcolo della distribuzione dei pesi nei codici ciclici accorciati, Advisor : Prof. P. Gianni

1995-1999 : High school certificate: Type C (Sciences), Liceo Cantonale di Mendrisio, Switzerland

Work Experience

RESEARCH FELLOW, MATHEMATICS INSTITUTE, ZURICH UNIVERSITY, 2006-CURRENT

- Independent and joint research at the intersection of *Mathematics*, *Computer Science* and *Electrical Engineering*
- Publication of research results in various international journals (AAECC Springer Verlag, Proc. of ISIT 2008, etc)*
- Different research talks in international conferences (ISIT 2008 Toronto, AMS Joint Mathematics Meetings 2009 Washington, ITW 2010 Dublin, etc)*
- Teaching undergraduate students / Leading seminars in Computer Algebra
- Involved in the writing of the Swiss National Foundation research grant no. 126948

TUTOR ASSISTANT, MATHEMATICS INSTITUTE, UNIVERSITY OF PISA, 2003-2005

- Tutoring first year undergraduate students and advertising the Master in Mathematics to High school students

Extracurricular activities

- 2010 Expert in Cryptography for the Schweizer Jugend Forscht
- 2010 Representative of the assistants in the committee for the selection of a Professor at the University of Zurich
- 2008-current Elected member of the **Cryptology Detachment** of the Swiss Armed Forces
- 2003-2005 Representative of the students in the Council of the Mathematics Institute at the University of Pisa
- 2001-2009 Part-time job in the directorate of a three stars Hotel in Mendrisio

Miscellaneous

- Language Skills Fluent: Italian, English / Proficient: German, French / Basic: Spanish
- Computer Skills Advanced proficiency with all main operative systems: **Mac OS, Unix based OS** (Linux and SunOS) and Windows / Implementation Languages: C++, JAVA and Python / Mathematics Programs: Maple, Matlab, Mathematica, Magma, Sage / Knowledge of new media, Internet related technologies and current web trends
- Sports Mountain related sports (hiking, climbing and ski touring) and interest in Martial Arts (Nanbudo and Shitoryu)
- Personal Interests Socializing especially in multiethnic environments, Cooking, Reading and Traveling

* for a complete list visit http://user.math.uzh.ch/manganiello/felice/index_files/CV-mar11.pdf

Publications

- F. Manganiello. Computation of the weight enumerator of CRC codes, *Applicable Algebra in Engineering, Communication and Computing*. 19(4):349-363, August 2008
- F. Manganiello, E. Gorla, J. Rosenthal. Spread codes and spread decoding in network coding, In *Proceedings of the 2008 IEEE International Symposium on Information Theory*, pages 851–855, Toronto, Canada, 2008.
- A.-L. Trautmann, F. Manganiello, and J. Rosenthal. Orbit codes – a new concept in the area of network coding. In *Proceedings of the 2010 IEEE Information Theory Workshop*, Dublin, Ireland, 2010.
- F. Manganiello, A.-L. Trautmann, and J. Rosenthal. On conjugacy classes of subgroups of the general linear group and cyclic orbit codes. to appear in *Proceeding of the 2011 IEEE International Symposium on Information Theory*, St. Petersburg, Russia.
- F. Manganiello, E. Gorla, J. Rosenthal, An algebraic approach for decoding spread codes, in preparation.
- F. Manganiello, Spread Codes and more general network codes, Ph.D. dissertation, in preparation.