

# Giuseppe Nicola Lacagnina – Curriculum Vitae

## Personal info:

Name: Lacagnina Giuseppe Nicola  
Address: via Pacini 21, 20131 Milano, Italy  
Tel.: 0039 334 3406780  
E-mail: [giuseppe.lacagnina@gmail.com](mailto:giuseppe.lacagnina@gmail.com)  
Nationality: italian  
Date of birth: 29/07/1974  
Driving license: yes

## Current job:

IT Consultant for CD Pharma Group S.R.L.

## Past work experience:

Contracts as researcher in the field of computational high energy physics:

- from April 2009 to November 2009: assistant programmer at DBMedia
- from October 2007 to October 2009: INFN Milan (Nuclear Physics Institute)
- from October 2005 to October 2007: University of Pisa
- from October 2002 to October 2005: Universitaet Regensburg, Germany
- from October 2000 to October 2002: Edinburgh University, UK

## Teaching experience:

- University of Milano: two complete courses in Lattice Field Theory
- University of Pisa: teaching support for the courses of General Physics and Statistical Mechanics
- Universitaet Regensburg: teaching support for the courses of Advanced Quantum Mechanics and Quantum Chromodynamics
- Edinburgh University: teaching support for the course of Computational Physics

## Studies:

- from October 1997 to October 2000: Ph.D. In Theoretical Physics, Edinburgh University, UK.
- From October 1993 to October 1997: Degree (Laurea) in Physics, University of Catania, Italy; final mark 110/110 *cum laude*.

## Personal skills

### Professional goals

During my career, I have formed a professional profile oriented to the computational solution of scientific problems. I have experience in programming, application of mathematical models and statistical analysis of data. I have programmed with C, C++ and Fortran 90. I have recently started a web development activity involving php, mysql and the Zend Framework.

### Relational skills

I have a strong attitude towards team work, but I am also capable of independent work. I am used to working in multi-cultural and international environments.

## Languages

Native : italian

Other: english (very good for reading, writing and speaking)

german (basis knowledge)

## Technical skills:

- OS: Windows, Linux
- programming languages: C#, TSQL, C, C++, PHP5, Fortran90
- database: MySQL
- packages: Microsoft Office, OpenOffice, gnuplot, xmgrace
- mathematical software: Mathematica, Maple, Matlab
- other: awk, emacs, Outlook

## Scientific publications:

*Semileptonic form factors  $D \rightarrow \pi, K$  and  $B \rightarrow \pi, K$  from a fine lattice.*  
By QCDSF Collaboration (A. Al-Haydari *et al.*). DESY-09-029, 2009. 18pp.  
Eur.Phys.J.A43:107-120,2010

*Spectral Curves and Localization in Random Non-Hermitian Tridiagonal Matrices*, L. G. Molinari, G. N. Lacagnina, arXiv:0905.2489, accettato per la pubblicazione da Journal of Physics A

*Matrix elements of heavy-light mesons from a fine lattice*, A.Ali Khan, A. Al-Haydari, V. Braun, S. Collins, M. Goeckeler, G.N. Lacagnina, M. Panero, A. Schaefer, G. Schierholz, proceedings of Lattice 2008

*Monopole condensation in two-flavour Adjoint QCD*, G. Lacagnina, G. Cossu, Massimo D'Elia, A. Di Giacomo, C. Pica., Physical Review D77 (2008)

*An update in monopole condensation in two-flavour Adjoint QCD*, G. Lacagnina, G. Cossu, M. D'Elia, A. Di Giacomo, C. Pica. Oct 2007. 7pp, arXiv:0710.1713, proceedings of Lattice 2007

*Decays of mesons with charm quarks on the lattice*, A.Ali Khan, V. Braun, T. Burch, M Gockeler, G. Lacagnina, A. Schaefer, G. Schierholz. Proceedings of "Lattice 2007"

*Decay constants of charm and beauty pseudoscalar heavy-light mesons on fine lattices.* A.Ali Khan, V. Braun, T. Burch, M Gockeler, G. Lacagnina, A. Schaefer, G. Schierholz . DESY-07-006, Jan 2007. 13pp., hep-lat/0701015

*Monopole condensation in two-flavour Adjoint QCD*, G. Lacagnina, G. Cossu, M. D'Elia, A. Di Giacomo, C. Pica, Sep 2006. 5pp., proceedings of "Lattice 2006" (Tucson, USA)

*Spontaneous symmetry breaking and proper time flow equations*, A. Bonanno, G. Lacagnina, Marzo 2004. 20pp., Nuclear Physics B 693:36-50,2004.

*A Lattice calculation of vector meson couplings to the vector and tensor currents using chirally improved fermions*, V.M. Braun, T. Burch, C. Gattringer, M. Gockeler, G. Lacagnina, S. Schaefer, A. Schaefer, Giugno 2003. 6pp., Physical Review D 68:054501,2003

*The Paraldor project*, T. Ashby, D. Galletly, B. Joo, A.D. Kennedy, G. Lacagnina, Sett. 2002. 4pp, Nuclear Physics Proc.Suppl.119:1006-1008,2003

*Semileptonic decays of heavy mesons and the Isgur-Wise function in quenched lattice QCD*, K.C. Bowler, G. Douglas, R.D. Kenway, G. Lacagnina, C. Maynard, Feb. 2002. 21pp., Nuclear Physics B 637:293-310,2002

*The Isgur-Wise function on the lattice*, G. Lacagnina e UKQCD Collaboration, Sett. 2001. 3pp., Nuclear Physics Proc. Suppl. 106:373-375,2002

*Decay constants of B and D mesons from nonperturbatively improved lattice QCD*, K.C. Bowler, L. Del Debbio, J. M. Flynn, G. Lacagnina, V.I. Lesk, C. Maynard, D.G. Richards, Nuclear Physics B 619:507-537,2001