

Gianluca Gorni

Curriculum Vitae

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Education

- 1983–86 **Corso di Perfezionamento**, *Scuola Normale Superiore*, Pisa.
1978–82 **Laurea in Matematica**, *Università di Pisa*, Scuola Normale Superiore.

Academic positions

- 2001–Present **Professore di Prima Fascia**, *academic sector MAT/05 ANALISI MATEMATICA*, Università di Udine.
Teaching basic and advanced courses in Analysis to students in Mathematics and in Computer Science.
- 1992–2001 **Professore di Seconda Fascia**, *academic sector A02A ANALISI MATEMATICA*, Università di Udine.
Teaching basic and advanced courses in Analysis to students in Mathematics and in Computer Science.
- 1986–1992 **Ricercatore Universitario**, *academic sector A02 ANALISI MATEMATICA E PROBABILITÀ*, Università di Udine.
Teaching basic courses in Analysis to students in Computer Science.

Overseas scholarships

- 1987–88 **Brown University**, *Providence, RI, USA*, with a CNR scholarship.
1991–92 **Chūō University**, *Tōkyō, Japan*, with an EU scholarship.

Computer skills

- Basic HTML, OpenOffice, image editing
Intermediate MacOS
Advanced *Mathematica*, \LaTeX

Languages

- Italian **Mothertongue**
English **Advanced**
Japanese **Lower Intermediate** *Basic conversation*

Interests

- Photography
- Biology
- Psychology
- Cinema
- Astronomy

Selected Scientific Publications

GIANLUCA GORNI, *The dynamic programming equation for stochastic optimal control in Hilbert spaces: a variational approach. Stochastics* **15** (1985), 69–111.

GIANLUCA GORNI, GAETANO ZAMPIERI, *Complete integrability for Hamiltonian systems with a cone potential. Journal of Differential Equations* **85**, No. 2, (1990), 302–337.

GAETANO ZAMPIERI, GIANLUCA GORNI, *Local homeo- and diffeomorphisms: invertibility and convex image. Bulletin of the Australian Mathematical Society* **49** (1994), 377–398.

ÂNGELO BARONE-NETTO, GIANLUCA GORNI, GAETANO ZAMPIERI, *Local extrema of analytic functions. Nonlinear Differential Equations and Applications* **3**, (1996), 287–303.

GIANLUCA GORNI, GAETANO ZAMPIERI, *On cubic-linear polynomial mappings. Indagationes Mathematicae, N. S.* **8** (4) (1997), 471–492.

ÂNGELO BARONE-NETTO, MAURO DE OLIVEIRA CESAR, GIANLUCA GORNI, *A Computational Method for the Stability of a Class of Mechanical Systems. Journal of Differential Equations* **184** (2002), 1–19.

GIANLUCA GORNI, HALSZKA TUTAJ-GASIŃSKA, *On the entrywise powers of matrices. Communications in Algebra* **32** No. 2 (2004), 495–520.

GIANLUCA GORNI, GAETANO ZAMPIERI, *Analytic-non-integrability of an integrable analytic Hamiltonian system. Differential Geometry and its Applications.* **22** (2005), 287–296

RICARDO DOS SANTOS FREIRE JR., GIANLUCA GORNI, GAETANO ZAMPIERI, *Search for Homogeneous Polynomial Invariants and a Cubic-homogeneous Mapping without Quadratic Invariants, Universitatis Iagellonicae Acta Mathematica* **46** (2008), 7–13

GIANLUCA GORNI, GAETANO ZAMPIERI, *Central Potentials with closed cruise orbits. Journal of Differential Equations* **246** (2009), No. 6, 2226–2241.

GIANLUCA GORNI, GAETANO ZAMPIERI, *Aspetti variazionali della meccanica I. Complementi alle Lezioni di Meccanica Razionale di T. Levi-Civita e U. Amaldi*, ed. CompoMat (2012), 301–329. ISBN: 9788895706313.

GIANLUCA GORNI, GAETANO ZAMPIERI, *Global isochronous potentials. Qualitative Theory of Dynamical Systems* (2013). DOI 10.1007/s12346-013-0097-1.