

Emanuela Laura Giacomelli

Curriculum vitae

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Current Position

2014-today **PhD Student in Mathematical Physics**, *Sapienza University of Rome*, Surface superconductivity in presence of corners.

Education

2012-2014 **Master of Science in Mathematics**, *Sapienza University of Rome*.

- Thesis Title: "Time reversal symmetry for periodic Pauli operator"
- Final marks: 110/110 cum laude
- Supervisor: Gianluca Panati

2009-2012 **Bachelor of Science in Mathematics**, *Sapienza University of Rome*.

- Final marks: 110/110 cum laude
- Thesis Title: "On the existence of weak solutions for quasilinear elliptic equations"
- Supervisor: Luigi Orsina

2004-2009 **High School diploma**, *Liceo Scientifico "Paolo Ruffini"*, Viterbo, Final marks 100/100.

Research Interest

- Quantum Mechanics
- Functional Analysis
- Ginzburg-Landau Theory
- Topological Insulators

Conferences and Schools

28 August-1 September 2016 **Frontiers in Mathematical Physics**, *CRM Montreal*.

- 22-26 August 2016 **Methods of Modern Mathematical Physics**, *Fields Institute Toronto*.
- 11-15 July 2016 **Universality, scaling limits, and effective theories**, *Rome*.
- 4-8 July 2016 **Contemporary trends in the mathematics of Quantum Mechanics**, *Rome*.
- 13-19 June 2016 **Mathematical Many-Body Theory and its Applications**, *BCAM, Bilbao*.
- 26-28 May 2016 **Solid Math 2016**, *University of Aalborg*.
- 4-6 April 2016 **Geometrical aspects of spectral theory**, *BCAM, Bilbao*.
- 8-13 February 2016 **Mathematical Challenges in Quantum Mechanics**, *Bressanone*.
- 2015 **"Colloquia Dottorandi di Roma"**, *"La Sapienza" University of Rome, Rome Tre University, "Tor Vergata" University of Rome*.
- 8-10 July 2015 **Trails in Quantum Mechanics and Surroundings 2015**, *University of Insubria, Como*.
- 15-19 June 2015 **Eighth Summer School in Analysis and Applied Mathematics**, *"La Sapienza" University of Rome*.
- 26-29 May 2015 **Master Class on Quantum Mathematics**, *University of Copenhagen*.
- 2-5 February 2015 **The Mathematics of Topological Insulators**, *University of Naples "Federico II"*.

———— Talks

- 7 June 2016 **Surface Superconductivity in Presence of Corners**, *Università di Roma Tre*.
- 9 July 2015 **On the existence of magnetic time reversal symmetry**, *University of Insubria, Como, (Invited Speaker)*.

———— Seminars

- 11 March 2016 **La somma degli angoli interni di un triangolo è 180° ? Lo strano mondo delle geometrie non euclidee**, *Liceo Scientifico Statale "P. Ruffini", Viterbo*.

———— Preprints

- 2016 M. Correggi, E. L. Giacomelli "Surface Superconductivity in Presence of Corners".

———— Teaching Experience

- 2015-2016 Teaching assistant of the course "Analytical Mechanics", Department of Physics, University of Rome 3.
- 2015-2016 Teaching assistant of the course "Mathematical Methods and Computer Systems to Biology", Department of Biological Sciences, *Sapienza University of Rome*.

2014-2015 Teaching assistant of the course "Mathematical Methods and Computer Systems to Biology", Department of Biological Sciences, *Sapienza* University of Rome.

■ Funding Information

2016 Member of Progetto Giovani GNFM 2016 "Superconductivity and Superfluidity" (3 participants, 5.000 €).

2016 Principal Investigator of Progetto per Avvio alla Ricerca 2016 "Superconductivity for type-II superconductors in presence of corners" (1 participant, 1.000 €).

■ Fellowships and Awards

April 2015 Winner of the prize "Laureato Eccellente Sapienza".

2013-2014 "Percorso di Eccellenza" (advanced courses) during the Master Degree, *Sapienza* University of Rome.

2010-2012 "Percorso di Eccellenza" (advanced courses) during the Bachelor Degree, *Sapienza* University of Rome.

2009 Winner of the prize "Memory for Peace" and participation to the educational journey to Auschwitz.

■ Languages

Mother Italian

Tongue

Other English
languages

■ Computer skills

Programming C, C++, Latex. Basic knowledge: fortran 90, Mysql.

Systems Common and advanced programs on Mac OS, Linux and Microsoft Windows distributions (Open Office, Microsoft Office etc.).

