Nico Michele Schiavone

Curriculum Vitae

▬▬▬ Personal Data

Date of Birth	28th September 1994
Nationality	Italian
Gender	Male
Email	schiavone@mat.uniroma1.it

▬▬▬ Current position

2018–today	**PhD student in Mathematics XXXIV ciclo**, *Department of Mathematics "Guido Castelnuovo", Sapienza Università di Roma*, Italy. Tutor: Prof. Luca Fanelli. Advisors: Prof. Piero D'Ancona & Prof. Luca Fanelli

▬▬▬ Research interests

- Uniform estimates of the resolvent, Lieb-Thirring inequalities and localization of eigenvalues for Dirac operators with potential
- Blow-up and lifespan estimates for semilinear wave equations with damping and mass terms

▬▬▬ Work experiences

2018–2019	**Tutor for the course Calculus 1**, *Department of Mathematics, Sapienza Università di Roma*. Bando n.14 Tranche/PLS

▬▬▬ Education

2016–2018	**Master's degree in Mathematics**, *Università degli studi di Bari*, Italy. ○ Final mark: 110/110 cum laude. Grade point average: 29.23/30
2013–2016	**Bachelor's degree in Mathematics**, *Università degli studi di Bari*, Italy. ○ Final mark: 110/110 cum laude. Grade point average: 29.25/30
2008–2013	**High school graduate**, *Liceo scientifico E. Amaldi*, Bitetto BA, Italy. ○ Final mark: 100/100

Theses

Master's Thesis

Title *Blow-up for semilinear wave equations with scattering damping and negative mass term*

Supervisors Professor Sandra Lucente & Professor Hiroyuki Takamura

Description In this thesis we achieved new results on the blow-up of the energy solution for a special kind of semilinear wave equations with scattering damping and negative mass term

Bachelor's Thesis

Title *Stime $L^p - L^q$ per Somme Trigonometriche e Integrali Oscillanti*
($L^p - L^q$ Estimates for Trigonometric Sums and Oscillatory Integrals)

Supervisor Professor Sandra Lucente

Description We studied the asymptotic behaviour for the best constant in $L^p - L^q$ estimates for trigonometric polinomials and for an integral operator related to the solution of the inhomogeneous Schrödinger equation

Attended conferences, schools & workshops

30/01/2019– **INdAM 10th Itinerant Workshop in PDEs**, *INdAM General Quarters – Sapienza*
01/02/2019 *Università di Roma*, Italy.

24/09/2018– **Workshop MAR: Metric Analysis & Regularity**, *Università degli studi di Catania*,
28/09/2018 Italy.

02/07/2018– **The 11th Mathematical Society of Japan Seasonal Institute (MSJ-SI 2018) –**
13/07/2018 **The Role of Metrics in the Theory of Partial Differential Equations**, *Hokkaido University*, Sapporo, Japan.
I participated to the poster session to exhibit new results

06/05/2018– **Junior Math Days**, *SISSA – Scuola Internazionale Superiore di Studi Avanzati*,
10/05/2018 Trieste, Italy.

16/04/2018– **Introduction to the theory of self-adjoint operators**, *BCAM – Basque Centre*
20/04/2018 *for Applied Mathematics*, Bilbao, Spain.

24/07/2017– **Scuola Matematica Interuniversitaria Perugia 2017**, *University of Perugia*, Italy.
18/08/2017 Attended courses: *Introduction to Partial Differential Equations* and *Differential Geometry*

March–June **INdAM Intensive Period – Contemporary research in elliptic PDEs and re-**
2017 **lated topics**, *Università degli studi di Bari*, Italy.

Awards & Grants

12/01/2018– **Global Thesis study award 2016–2017**, *Università degli studi di Bari*, Italy.
04/04/2018 ○ I worked on my Master's thesis in Future University Hakodate (Hakodate, Japan) under the supervision of Prof. Hiroyuki Takamura

Publications

[2] **N.-A. Lai, N.M. Schiavone, H. Takamura**, *Short time blow-up by negative mass term for semilinear wave equations with small data and scattering damping* (2018). Submitted for publication on *Advanced studies in Pure Mathematics*

[1] **N.-A. Lai, N.M. Schiavone, H. Takamura**, *Wave-like blow-up for semilinear wave equations with scattering damping and negative mass.* arXiv preprint arXiv:1804.11073 (2018). Submitted for publication on *New Tools for Nonlinear PDEs and Application*, Birkhäuser

Computer skills

Good knowledge Microsoft Office tools, LaTeX, MATLAB, Octave, SageMath, C++

Languages

Italian **Mothertongue**

English **Fluent**

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