

Alessandro Palmieri

Curriculum vitae

PERSONAL DATA

Date of birth December 1st, 1990
Place of birth Monopoli, Italy
Email addresses alessandro.palmieri@uniba.it

CURRENT POSITION

February 2022 – today

Assistant Professor (RTDb) at the Mathematical Department of the University of Bari (UniBa).

ITALIAN NATIONAL SCIENTIFIC QUALIFICATION FOR ASSOCIATE PROFESSOR

2018-2020 national scientific qualification for Associate Professor - sector 01/A3 (Mathematical Analysis, Probability and Mathematical Statistics) from 07/05/21 to 07/05/30

FORMER POSITIONS

August 2021 – January 2022

Post-doc fellowship, Tohoku University, Sendai, Japan. JSPS Postdoctoral Fellowship for Research in Japan (Short-term). Advisor: Prof. H. Takamura (Tohoku University)

February 2019 – January 2020

Post-doc fellowship, University of Pisa, Pisa, Italy. (Project PRA 2018 49).
Advisors: Prof. V. Georgiev (University of Pisa) and Prof. V. Magnani (University of Pisa).

October 2015 – September 2018

Ph.D. student at the Technical University Bergakademie Freiberg, Faculty of Mathematics and Computer Science (Faculty 1), supported by Sächsisches Landesgraduirtenstipendium. Supervisors: Prof. M. Reissig (TU Freiberg) and Prof. M. D'Abbicco (University of Bari)

MEMBERSHIP

ISAAC (International Society for Analysis, its Applications and Computation)

ISAAC member since 30/04/18 and life member since 29/07/19

2017 Member of the GNAMPA group “Equazioni di tipo dispersivo e proprietà asintotiche”. Coordinator Prof. Marcello D'Abbicco (Università di Bari)

2020 Member of the GNAMPA group “Problemi stazionari e di evoluzione nelle equazioni di campo nonlineari dispersive”. Coordinator Prof. Jacopo Bellazzini (Università di Sassari/Università di Pisa)

2022 Member of the GNAMPA group “Equazioni dispersive e dissipative: stime e profili asintotici”. Coordinator Prof. Marcello D'Abbicco (Università di Bari)

2024 Member of the GNAMPA group “Modelli locali e non-locali con perturbazioni non-lineari”. Coordinator Dr. Giovanni Girardi (Università Politecnica delle Marche)

TALKS AS INVITED SPEAKER AT CONFERENCES

- January 29, 2024** *On a nonlinear wave equation in the contracting de Sitter spacetime with a critical nonlinearity*
Fourier Analysis and Partial Differential Equations II,
University of Ferrara, Ferrara, Italy.
- August 27, 2023** *A Nakao-type weakly coupled system with nonlinearities of derivative-type*
Workshop on Nonlinear Dispersive Equations, Fudan University, Shanghai, China.
- July 20, 2023** *On a blow-up result with critical nonlinearities for a wave equation in the expanding de Sitter spacetime*
14th ISAAC Congress, University of São Paulo, Ribeirão Preto, Brazil.
- April 26, 2023** *Some results for semilinear wave equations on compact Lie groups*
Workshop “PDE days at TU Bergakademie Freiberg”
TU Freiberg, Freiberg, Germany.
- February 21, 2023** *Blow-up results for a semilinear wave equation in the expanding de Sitter spacetime*
The 24th Northeastern Symposium on Mathematical Analysis,
Tohoku University, Sendai, Japan.
- November 29, 2022** *Semilinear wave models on compact Lie groups*
Conference on Noncommutative Analysis and PDEs,
Queen Mary University of London, London, England.
- August 5, 2021** *Blow-up results for semilinear wave equations in Einstein-de Sitter spacetime*
13th ISAAC Congress, Ghent University, Ghent, Belgium (e-conference).
- February 10, 2020** *The critical exponent for the damped wave equation in the Heisenberg group.*
Dispersive and subelliptic PDEs, Centro di Ricerca Matematica
Ennio De Giorgi SNS, Pisa, Italy.
- August 1, 2019** *Recent progress in semilinear wave equations in the scale-invariant case.*
12th ISAAC Congress, Aveiro University, Aveiro, Portugal.
- July 3, 2019** *Critical exponent for the semilinear heat equation on the Heisenberg group and sharp lifespan estimates.*
New Trends in the Applications of Differential Equations in Sciences
(NTADES’19), St. Constantine and Helena, Bulgaria.
- February 21, 2019** *A blow-up result for a weakly coupled system of semilinear damped wave equations in the scattering case.*
PDE Workshop Waseda - GSSI, L’Aquila - Pisa,
University of Pisa, Pisa, Italy.
- August 17, 2017** *Fractional chain rule and application to a semi-linear scale-invariant wave equation with damping and mass.*
11th ISAAC Congress, Linnaeus University, Växjö, Sweden.
- October 4, 2016** *Semi-linear scale-invariant Klein-Gordon equation with dissipation.*
New trends in Partial Differential Equations, Centro di Ricerca
Matematica Ennio De Giorgi SNS, Pisa, Italy.
- June 17, 2016** *Recent progress for wave models with scale invariant mass and dissipation.*
VI congress of mathematicians of Macedonia, Ohrid, Macedonia.

INVITED LECTURES AND SEMINARS

- December 8, 2022** *Blow-up phenomena for semilinear wave equations in de Sitter spacetime*
University of Texas Rio Grande Valley (UTRGV),
School of Mathematical and Statistical Sciences, Mathematical Physics Seminar,
Edinburg, Texas, USA.
- November 26, 2021** *A critical exponent of Fujita-type for the semilinear damped wave equation on some unimodular Lie groups*
Hiroshima Mathematical Analysis Seminar No.254,
Hiroshima University, Higashihiroshima, Japan.
- October 12, 2021** *On the critical exponent for the semilinear damped wave equation on some unimodular Lie groups*
Ghent Methusalem Junior Seminar, Analysis and PDE Center,
Ghent University, Ghent, Belgium (online webinar).
- October 7, 2021** *A Fujita-type critical exponent for the semilinear damped wave equation on the Heisenberg group*
Tohoku University Analysis and Applied Mathematics Seminar,
Mathematical Institute, Tohoku University, Sendai, Japan.
- October 27, 2020** *The critical exponent for the semilinear damped wave equation on the Heisenberg group*
Webinar on Evolution Models
Critical exponent versus blow-up in evolution models
- February 22, 2017** *Fractional chain rule and application to a non-linear PDE.*
Seminar Funktionenräume
Friedrich-Schiller-Universität, Jena, Germany.

ORGANIZATION OF WORKSHOPS

- February 6-8, 2020** Co-organizer with Prof. V. Georgiev of the workshop
“Dispersive equations of Math Physics”
Università di Pisa, Pisa, Italy.
- November 2021 - January 2022** Co-organizer with Dr. W. Chen of the series of webinars
“Recent Advances in Nonlinear Evolution Equations” (RANEE)
- 21 December 2022** Co-organizer with Profs. M. D’Abbicco, A. Loiudice and S. Lucente
of the workshop “EDP e dintorni: VII Meeting around PDE”
University of Bari, Bari, Italy
- 17-21 July 2023** Co-organizer with Profs. M. D’Abbicco and M. Reissig
of the Session 13 “Recent Progress in Evolution Equations”
of the 14th ISAAC Congress,
University of São Paulo, Ribeirão Preto, Brazil.
- 19 December 2023** Co-organizer with Profs. M. D’Abbicco, A. Loiudice and S. Lucente
of the workshop “EDP e dintorni: VIII Meeting around PDE”
University of Bari, Bari, Italy.
- July 2024** Co-organizer with Profs. M. D’Abbicco, A. Loiudice and S. Lucente
of the workshop “EDP e dintorni: IX Meeting around PDE”
University of Bari, Bari, Italy.

RESEARCH EVALUATION ACTIVITY

Reviewer for the following journals:

1. Advances in Differential Equations;
2. AIMS Mathematics;
3. Applicable Analysis;
4. Applied Mathematics Letters;
5. Arabian Journal of Mathematics;
6. Asymptotic Analysis;
7. Boletín de la Sociedad Matemática Mexicana;
8. Boundary Value Problems;
9. Chaos, Solitons & Fractals;
10. Communications in Mathematical Sciences;
11. Differential and Integral Equations;
12. Discrete and Continuous Dynamical Systems;
13. Eurasian Mathematical Journal;
14. European Journal of Mathematics;
15. Evolution Equations and Control Theory;
16. Fractional Calculus and Applied Analysis;
17. Funkcialaj Ekvacioj;
18. Journal of Differential Equations;
19. Journal of Evolution Equations;
20. Journal of Inequalities and Applications;
21. Journal of Mathematical Analysis and Applications;
22. Journal of Mathematical Fluid Dynamics;
23. Mathematical Methods in the Applied Sciences;
24. Mathematische Nachrichten;
25. Meccanica;
26. Mediterranean Journal of Mathematics;
27. Monatshefte für Mathematik;
28. Nonlinear Analysis: Real World Applications;
29. Nonlinear Analysis: Theory, Methods and Applications;

30. Nonlinear Differential Equations and Applications (NoDEA);
31. Osaka Journal of Mathematics;
32. Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas;
33. Zeitschrift für angewandte Mathematik und Physik.

TEACHING EXPERIENCES

October 2016 - February 2017	Complementary lectures (30 hours) to the course “Method of analysis and Econometrics” by Prof. Stephan (TU Freiberg, Faculty 6) for IBDEM and IMRE students (TUBA Freiberg)
October 2017 - February 2018	
March 2022 - June 2022	“Analisi Matematica” course for “Informatica e Comunicazione Digitale” students (first year, bachelor degree, UniBa).
March 2023 - June 2023	
October 2022 - January 2023	Complementary lectures to the course “Matematica” by Dr. G. Mancini for “Scienze Geologiche” students (first year, bachelor degree, UniBa).
October 2023 - January 2024	
January 2023	“Fourier Analysis and its Applications ” course for PhD students (PhD Programme in Computer Science and Mathematics, UniBa).
September 2023 - December 2023	“Matematica 1 ” course for “Scienza e Tecnologia dei Materiali” students (first year, bachelor degree, UniBa).
September 2023 - December 2023	Complementary lectures to the course “Analisi Matematica 1” by Prof. S. Lucente for “Fisica” students (first year, bachelor degree, UniBa).

EXPERIENCES AS SUPERVISOR

2019-2020: Co-supervisor (with Prof. Sandra Lucente, University of Bari) of Nicolò Capodiferro’s thesis (bachelor degree in Mathematics, University of Bari).

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May 6, 2024
Bari, Italy