Giovanni Alberti

Fixed-term assistant professor

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Education and training

2014
Doctor of Philosophy

On local constraints and regularity of PDE in electromagnetics. Applications to hybrid imaging inverse problems

University of Oxford - Oxford - GB

2011
Master of Science in Mathematics

Reproducing Subgroups of the Symplectic Group - 110/110 e lode

University of Genoa - Genova - IT

2009
Bachelor of Science in Mathematics

La precessione di Thomas - 110/110 e lode

University of Genoa - Genova - IT

Academic experience

2016 - ONGOING
Assistant Professor

University of Genoa - Genova - IT

2015 - 2016
Postdoc

ETH Zürich - Zürich - CH

2014 - 2015
Postdoc

École normale supérieure - Paris - FR

Language skills

English
Proficient

French

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

PostDocs
2020-now Luca Ratti, S. Ivan Trapasso
2019-2020 Ángel Arroyo
PhD students
2021-now Alessandro Felisi
2020-now Silvia Sciutto
2018-now Tandri Gauksson (co-supervision, ETH Zu¨rich)
Master's students
2020 Silvia Sciutto
2019 Paolo Campodonico
2018 Luca Di Fazio (co-supervision, University of Catania)
2015 Victor Storchan (co-supervision, École Normale Supérieure)
Bachelor's students
2022 Matteo Arscone, Simone Buzzo
2021 Simone Sanna, Matteo Bertuzzo
2020 Filippo Papallo, Lorenzo Bozzi, Beatrice Ravera
2019 Marco Baracchini, Eugenio Dellepiane, Davide Parodi
2018 Silvia Sciutto

PhD committees membership

PhD in Mathematics and applications, UniGe

Research interests

Partial differential equations, functional analysis, applied harmonic analysis, wavelets, frame theory, compressed sensing, inverse problems, mathematical imaging, medical imaging, machine learning.

Grants

2016 - 2018
Applied harmonic analysis and PDEs for inverse problems in imaging
Marie Skłodowska-Curie Actions ETH Zurich - CH
225700 CHF - Pricipal investigator

2019 - 2021
Infinite-dimensional inverse problems with finite measurements
Università di Genova - IT
59500 - Pricipal investigator

2020 - ONGOING
Machine Learning for Inverse Problems
Air Force Office of Scientific Research - US

252590 USD - Pricipal investigator

Editorial activity

Publons profile: http://publons.com/a/1295489/
Associate Editor of Inverse Problems in Science and Engineering (2019-2021)
Reviewer for Austrian Science Fund, AMS Mathematical Reviews, Applicable Analysis, Applied Mathematics Letters, Applied Mathematics & Optimization, Calculus of Variations and PDEs, Chinese Journal of Mathematics, Contemporary Mathematics, ESAIM: Mathematical Modelling and Numerical Analysis, The IMA Journal of Applied Mathematics, Inverse Problems, Inverse Problems and Imaging, Israel Journal of Mathematics, Mathematics of Computation, Nonlinear Analysis: Real World Applications, SIAM/ASA Journal on Uncertainty Quantification, SIAM Journal on Applied Dynamical Systems, SIAM Journal on Imaging Sciences, SIAM Journal on Mathematical Analysis, SIAM Journal on Numerical Analysis, Zentralblatt MATH.

Other professional activities

2022 EAIP Young Scientist Award Committee
2020 PhD Committee of Francesca Bartolucci, UniGe
2019 PhD Committee of Adrian Kirkeby, DTU, Copenhagen, Denmark
2019-now Scientific Committee, PhD in Mathematics and applications, UniGe
2016-now Department Council, Department of Mathematics, UniGe