

## Curriculum Vitae of Felisi, Alessandro, 27 August, 2024

**Current position:** Ph.D. student in **Matematica e Applicazioni** (November 2021 - present), Università di Genova (Italy), supervisor: Giovanni S. Alberti.

### Education and degree completed:

- 25 February 2021: **MSc in Mathematics** (110/110 cum laude), Università degli Studi di Milano Statale (Italy) - "Approximation and Regularization for the Inverse Conductivity Problem", supervisor: Luca Rondi.
- 18 December 2018: **BSc in Mathematics** (110/110 cum laude), Università degli Studi di Milano Statale (Italy).

### Research interests:

Applied Harmonic Analysis, Inverse Problems, Partial Differential Equations.

### Scientific talks:

- 10 - 12 January 2024: "Ill Young Researchers Workshop in Harmonic Analysis", Università di Genova (Italy) - "Compressed sensing for inverse problems".
- 18 - 22 September 2023: "Meeting of the Austrian Mathematical Society", Karl-Franzens-University, Graz (Austria) - "Compressed sensing for the sparse Radon transform".
- 20 - 25 August 2023: "10th International Conference on Industrial and Applied Mathematics", Waseda University, Tokyo (Japan) - "Compressed sensing for the sparse Radon transform".
- 3 - 7 July 2023: "29th Nordic Congress of Mathematicians with EMS", Aalborg University (Denmark) - "Compressed sensing for the sparse Radon transform".
- 12 - 16 June 2023: "Ulysses Spring School in PDEs (USSPDE)", Siviglia (Spain) - "Full discretization and regularization for the Calderón problem".
- 18 - 22 September 2022: "Second Conference of Young Applied Mathematicians in Arenzano", Arenzano, Genova (Italy) - "Generalized compressed sensing for inverse problems".
- 12 - 16 September 2022: "8th International Conference on Computational Harmonic Analysis", Ingolstadt (Germany) - "Sample complexity of ill-posed inverse problems via compressed sensing".
- 30 May - 01 June 2022: "XLI Convegno di Analisi Armonica", Università di Genova (Italy) - "Generalized compressed sensing for inverse problems".

### Teaching:

- 2023/2024, 1st semester - *Supporto alla didattica* for Analisi 2 at DIMA (UniGe), with Prof. Giovanni S. Alberti and Prof. Marco Baronti - 60 tutoring hours.
- 2022/2023, 2nd semester - *Supporto alla didattica* for Calculus I at DIBRIS (UniGe), with Prof. Tommaso Bruno and Prof. Federico Benvenuto - 40 tutoring hours.

### Publications:

*Preprints (submitted):*

- G. S. Alberti, A. Felisi, M. Santacesaria and I. Trapasso. "Compressed sensing for inverse problems and the sample complexity of the sparse Radon transform", *ArXiv e-prints*, arXiv:2302.03577, (2023).
- A. Felisi and L. Rondi. "Full discretization and regularization for the Calderón problem", *J. Differ. Equ.* **410** (2024), 513-577, [DOI:10.1016/j.jde.2024.07.040](https://doi.org/10.1016/j.jde.2024.07.040), [arXiv:2112.11489](https://arxiv.org/abs/2112.11489).

**Memberships/Affiliations:**

- Aderente a GNAMPA (2023).
- Member of *Unione Matematica Italiana (UMI)*.