

# Curriculum Vitae et Studiorum

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## Academic qualifications

- 2004: *B.Sc. in Mathematics*, University of Turin.
- 2006: *M.Sc. in Mathematics*, University of Turin.
- 2010: *Ph.D. in Science and High Technology (Mathematics)*, University of Turin.

## Research experience

- 2007–2009: *Ph.D. in Mathematics*, University of Turin.
- 2010–2011: *Research Fellow*, National Institute of High Mathematics (INdAM).
- 2012–present: *Fixed-Term Research Fellow in Numerical Analysis*, Department of Mathematics, University of Turin.

## Teaching experience

- 2008–09: *Optimization Methods* (B.Sc. in Mathematics) – University of Turin.
- 2009–10: *Numerical Analysis* (B.Sc. in Mathematics), *Numerical Methods for Differential Equations* (M.Sc. in Mathematics) – University of Turin.
- 2010–11: *Advanced Numerical Analysis* (M.Sc. in Mathematics) – University of Turin.
- 2011–12: *Advanced Numerical Analysis*, *Numerical Methods for Differential Equations* (M.Sc. in Mathematics) – University of Turin.
- 2012–13: *Advanced Numerical Analysis*, *Numerical Methods for Differential Equations* (M.Sc. in Mathematics), *Numerical Analysis* (B.Sc. in Mathematics for Finance and Insurance), *Numerical Methods* (B.Sc. in Science and Technology of Materials), *Methods, Algorithms and Applications of the Meshfree Approximation* (Ph.D. in Mathematics) – University of Turin.
- 2013–14: *Advanced Numerical Analysis*, *Numerical Methods for Differential Equations* (M.Sc. in Mathematics), *Numerical Analysis* (B.Sc. in Mathematics for Finance and Insurance), *Numerical Methods* (B.Sc. in Science and Technology of Materials), *Numerical Methods for Scattered Data Approximation* (Ph.D. in Mathematics) – University of Turin.

- 2014–15: *Advanced Numerical Analysis, Numerical Methods for Differential Equations* (M.Sc. in Mathematics), *Numerical Analysis* (B.Sc. in Mathematics for Finance and Insurance), *Numerical Methods* (B.Sc. in Science and Technology of Materials).
- 2015–16: *Advanced Numerical Analysis, Numerical Methods for Differential Equations* (M.Sc. in Mathematics), *Numerical Analysis* (B.Sc. in Mathematics for Finance and Insurance), *Laboratory of Numerical Analysis* (B.Sc. in Mathematics).

## Abroad research visits

- 2012–13: *Visiting Researcher*, Department of Applied Mathematics, Illinois Institute of Technology, Chicago, USA.

## Research interests

- Scattered data approximation: interpolation and integration.
- Spherical interpolation.
- Image registration and applications to medicine and biomathematics.
- Matrix spectral analysis and preconditioning techniques.
- Kernel-based approximation methods.
- High-performance scientific computing.

## Scientific collaborations

- G. Allasia, A. De Rossi, E. Perracchione, H. Qiao, E. Venturino (University of Turin, Italy).
- S. De Marchi, G. Santin (University of Padua, Italy).
- M. Donatelli, S. Serra-Capizzano (University of Insubria, Como, Italy).
- G. E. Fasshauer (Illinois Institute of Technology, Chicago, USA).
- M. McCourt (University of Colorado, Denver, USA).
- B. Quatember, W. Recheis (Innsbruck Medical University, Austria).
- M. Mayr (University of Applied Sciences, Wiener Neustadt, Austria).
- S. Demertzis (Cardiocentro Ticino, Lugano, Switzerland).
- C. De Lazzari (Institute of Clinical Physiology – C.N.R., Rome, Italy).
- S. Chaudhuri (Indian Statistical Institute, Calcutta, India).

## Research projects

- 2006–present: Member of Research Unit in projects funded by Department of Mathematics, University of Turin and National Group for Scientific Computing (GNCS-INdAM).

## Participation in research groups

- 2007–present: Member of the GNCS-INdAM.
- 2012–present: Member of the National Society of Applied and Industrial Mathematics (SIMAI).
- 2015–present: Member of the Italian Mathematical Society (UMI).

## Scientific communications

- 2008–present: Speaker in international conferences and workshops.

## Publications

See

- IRIS AperTO:

[https://aperto.unito.it/simple-search?query=roberto+cavoretto&rpp=10&sort\\_by=bi\\_sort\\_2\\_sort&order=DESC&filter\\_field\\_1=author&filter\\_type\\_1=authority&filter\\_value\\_1=rp16325#.VYAX1EbQM8I](https://aperto.unito.it/simple-search?query=roberto+cavoretto&rpp=10&sort_by=bi_sort_2_sort&order=DESC&filter_field_1=author&filter_type_1=authority&filter_value_1=rp16325#.VYAX1EbQM8I)

- Scopus:

<http://www.scopus.com/authid/detail.url?authorId=25421172700>