

Short CV of Prof. Beatrice Meini  
Dipartimento di Matematica, Università di Pisa

## Academic career

1997: PhD in Mathematics, Università di Pisa (Italy)

1998-2004: researcher in numerical analysis at Dipartimento di Matematica, Università di Pisa (Italy)

2005-2016: associate professor of numerical analysis at Dipartimento di Matematica, Università di Pisa

2016- : full professor of numerical analysis at Dipartimento di Matematica, Università di Pisa.

## Memberships

GNCS-INdAM (Italian Institute of High Mathematics), UMI (Italian Mathematical Society), ILAS (International Linear Algebra Society), SIAM and SIAM/LA (SIAM activity group in linear algebra)

## Istitutional assignments

Member of the disciplinary board of the University of Pisa (2020-)

Member of the board of PhD in Mathematics, University of Pisa (2010-)

## Services

2010-2013: member of the ILAS Advisory Committee (one 4-year term)

2014-2017: member of the ILAS Board of Directors (one 4-year term)

2020-2023 : chair of the ILAS Journal Committee (one 4-year term)

2022 : member of the ILAS Nominating Committee

2023 : chair of the ILAS Nominating Committee (one 1-year term)

## Bibliometrics (October 2024)

Scopus: 83 documents, 1527 citations by 1019 documents, 20 h-index

## Editorial activity

- Editor in Chief of the journal Linear and Multilinear Algebra (2023- ).
- Member of the editorial board of the journals:
  - Stochastic Models (1999-2023)
  - Linear Algebra and its Applications (2009- )
  - SIAM J. Matrix Anal Appl (2015- )
- Member of the editorial board of the SIAM book series "Fundamentals of Algorithms" (2009-2014)

## Scientific projects

Local responsible of the UniPI research unit of the PRIN 2022 project "Low-rank Structures and Numerical Methods in Matrix and Tensor Computations and their Application", PI Valeria Simoncini.

## Research topics

Numerical linear algebra, with special attention to applicative problems, computational problems in applied probability and Markov chains, nonlinear matrix equations, matrix functions, algebraic Riccati equations, and structured linear systems.

Co-author of two research books, one on numerical methods for structured Markov chain (Numerical Methods for Structured Markov Chains, Oxford University Press 2005), and one on the numerical solution of algebraic Riccati equations (Numerical Solution of Algebraic Riccati Equations, SIAM Fundamentals of Algorithms 2011).

## Plenary lectures

- ILAS conference 2004, Coimbra (SIAM/LA Speaker)
- ILAS conference 2010, Pisa
- Linear Algebra, Matrix Analysis and Applications (ALAMA), Alicante, 2018
- INFORMS Applied Probability, Nancy, 2023 (Marcel Neuts Lecture)
- SIAM/LA Paris 2024 (ILAS Lecturer)

## **Other presentations (selected 2016-)**

- ILAS, Leuven 2016
- Matrix-Analytic Methods in Stochastic Models, Budapest 2016
- FOCM, Barcelona 2017
- SCICADE, Bath 2017
- INdAM Meeting "Structured Matrices in Numerical Linear Algebra: Analysis, Algorithms and Applications", Cortona 2017
- LinStat, Poznan 2018
- ICIAM, Valencia 2019
- Matrix equations and tensor techniques, Pisa 2017, Magdeburg 2019, Perugia 2021
- SIAM-LA Conference, on-line, 2021
- XXI Householder Symposium, Selva di Fasano 2022
- ILAS, Madrid, 2023

## **Member of the scientific committee of international conferences (selected, 2000-)**

- International Conference on Matrix-Analytic Methods in Stochastic Models (advisory committee) Leuven 2000, Adelaide 2002, Pisa 2005 (program co-chair), Kerala 2014, Budapest 2016, Hobart 2019
- A.A. Markov Anniversary Meeting, Charleston 2006
- SMCTOOLS: Tools for solving Structured Markov Chains (co-chair), Pisa 2006 and 2009
- Numerical Methods for Structured Markov Chains, Dagstuhl Seminar, 2007
- Structured Linear Algebra Problems: Analysis, Algorithms, and Applications, Cortona 2008
- 15-th International Linear Algebra Society (ILAS) conference, Cancun 2008
- When Probability Meets Computation, in honour of Guy Latouche's retirement, Varese 2012
- SIAM Applied Linear Algebra conference, Atlanta 2015

- INdAM Meeting "Structured Matrices in Numerical Linear Algebra: Analysis, Algorithms and Applications", Cortona 2017
- Matrix equations and tensor techniques (METT) Steering Committee, Pisa 2017, Magdeburg 2019, Perugia 2021, Aachen 2023
- Matrix Analytic Methods in stochastic models, Toronto, 2025
- INdAM Workshop: Low-rank Structures and Numerical Methods in Matrix and Tensor Computations, Cortona 2025