

Curriculum Vitae

Ilaria Perugia

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Education

1998 Ph.D., Computational Mathematics and Operations Research, Università di Milano
1993 Laurea in Matematica, Università di Pavia

Employment

2013– Professor of Numerics of PDEs, Universität Wien
2011–2013 Professor of Numerical Analysis, Università di Pavia
2006–2007 Visiting Professor (Fall Semester), SAM - ETH Zürich
2001–2011 Associate Professor of Numerical Analysis, Università di Pavia
1999–2001 Visiting Assistant Professor, School of Mathematics, University of Minnesota
1995–2001 Researcher in Numerical Analysis, Università di Pavia

Research interests

Numerical methods for partial differential equations; finite element methods; discontinuous Galerkin methods; Trefftz methods; virtual element methods; space-time methods; wave propagation problems; computational electromagnetics; nonlinear diffusion-reaction problems.

Selected professional activities

- Deputy Director, Erwin Schrödinger International Institute for Mathematics and Physics (ESI), Vienna; Member of the ESI Kollegium (since 2016)
- Advisory Board, WWTF - Vienna Science and Technology Fund (since 2023)
- Scientific Advisory Board, Cluster of Excellence “Mathematik Münster: Dynamik - Geometrie - Struktur” (since 2019)
- Associate Research Fellow, IMATI-CNR “Enrico Magenes”, Pavia (since 2001)
- ERC Starting Grant Evaluation Panel (PE1), 2019, 2021, 2023
- Workshops Committee, FoCM 2026 - Foundations of Computational Mathematics, Vienna, July 8–18, 2026
- Scientific Committee, Equadiff 2026 - Biennial European Conference on Differential Equations and their Applications, Prague, June 29–July 3, 2026
- International Scientific Committee, 16th International Conference on Mathematical and Numerical Aspects of Wave Propagation, June 30–July 5, 2024, Berlin
- Scientific Committee, 9th European Congress of Mathematics, Seville, July 15–19, 2024

- International Scientific Committee, 15th International Conference on Mathematical and Numerical Aspects of Wave Propagation, ENSTA Paris, July 25–29, 2022
- Organising Committee, ICOSAHOM 2020+1 - International Conference on Spectral and High Order Methods for Partial Differential Equations, Vienna, July 12–16, 2021
- Organising Committee, 90th GAMM Annual Meeting, Vienna, February 18–22, 2019
- European Organising Committee, EFEB - European Finite Element Fair (since 2016)
- Project Part Leader, SFB *Taming complexity in partial differential systems*, FWF, 2017–2021, 2021–2025
- Faculty Member, DK *Dissipation and dispersion in nonlinear partial differential equations*, FWF, 2017–2022

Editorial boards

Acta Numerica (since 2021)
 Calcolo (since 2019)
 Journal of Scientific Computing (since 2018)
 IMA Journal of Numerical Analysis (since 2018)
 SIAM Journal on Numerical Analysis (since 2018)
 Advances in Computational Mathematics (since 2017)
 Journal of the European Mathematical Society (2019–2023)
 SIAM Journal on Scientific Computing (2014–2022)

Plenary lectures

- Invited plenary speaker at FoCM 2026 - Foundations of Computational Mathematics, Vienna, July 8–18, 2026.
- I. Perugia, *Nonconforming virtual element methods*, WONAPDE 2024 - 7th Chilean Workshop on Numerical Analysis of Partial Differential Equations, Concepcion, January 15–19, 2024.
- I. Perugia, *Nonstandard finite element methods for wave problems*, 19th European Women in Mathematics General Meeting, Aalto University, Finland, August 22–26, 2022.
- I. Perugia, *Mortar coupling of FEM and BEM for the Helmholtz problem*, Conference on Mathematics of Wave Phenomena 2022, KIT Karlsruhe, Germany, February 14–18, 2022.
- (invited speaker) I. Perugia, *Nonstandard finite elements for wave problems*, 8th European Congress of Mathematics 2020 Portorož, Slovenia, postponed to June 20–29, 2021.
- (semi-plenary speaker) I. Perugia, *Space-time methods for wave propagation problems*, 14th World Congress in Computational Mechanics and ECCOMAS Congress 2020, Paris, France, postponed to January 11–15, 2021.
- I. Perugia, *Trefftz finite elements*, 27th Biennial Numerical Analysis Conference, University of Strathclyde in Glasgow, Scotland June 27–30, 2017.
- I. Perugia, *Non standard finite elements for wave problems*, Joint Annual Meeting DMV and GAMM, Braunschweig, Germany, March 7–11, 2016.
- I. Perugia, *Trefftz-discontinuous Galerkin methods for time-harmonic wave problems*, European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2013, Lausanne, Switzerland, August 26–30, 2013.
- I. Perugia, *Plane wave discontinuous Galerkin methods*, 18th International Conference on Domain Decomposition Methods, Jerusalem, Israel, January 12–17, 2008.

- I. Perugia, *Analysis of discontinuous Galerkin approximations of the Maxwell eigenproblem*, 7th International Conference on Mathematical and Numerical Aspects of Waves WAVES'05, Providence RI, USA, June 20–24, 2005.
- I. Perugia, *Nonconforming mixed finite element approximations to time-harmonic eddy current problems*, XIV COMPUMAG Conference on Computation of Electromagnetic Fields, Saratoga Springs NY, USA, July 13–17, 2003.