

## PERSONAL INFORMATION

Celledoni, Elena

Date of birth: 09.09.67

Researcher unique identifier(s) (ORCID, ResearcherID, etc.): 0000-0002-2863-2603

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## CURRENT AND EARLIER POSITIONS

2009-2025 Professor at the Faculty of Information Technology and Electrical, Department of Mathematical Sciences, Norwegian University of Science and Technology (NTNU), Norway.

2021-2024 Deputy head of department (with responsibility for research).

2004-2009 Associate Professor at the Faculty of Information Technology and Electrical, Department of Mathematical Sciences, Norwegian University of Science and Technology (NTNU), Norway.

2001-2004 Research Scientist at SINTEF (*Norwegian Foundation for Science and Technology*)

1999-2001 Post-doc in Numerical Analysis, NTNU, Trondheim

## FELLOWSHIPS, AWARDS AND PRIZES

1997-1998 Postdoc, Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge, Cambridge, UK.

1998-1999 Postdoc, Mathematical Sciences Research Institute, Berkeley, CA, USA.

2024- Severo Ochoa [Distinguished Visiting Professor](#), Instituto de Ciencias Matematicas, Madrid.

## SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS (if applicable)

2004-2023 4 Postdocs/8 PhD students (as main supervisor)/ 23 Master students at NTNU

## ORGANISATION OF SCIENTIFIC MEETINGS

1998-2024 *Manifolds and Geometric Integration Colloquia*. I co-organize this annual meeting in collaboration with A. Zanna, H. Munthe-Kaas and B. Owren, (participants 20, Norway).

2016, 2022 and 2025 *Mathematics meets industry*, Trondheim. Chair of the organising committee, 150 participants.

2016 Abel symposium: *Computation and Combinatorics in Dynamics, Stochastics and Control*, 40 participants, member of the scientific committee.

2018 *NUMDIFF* Halle (Saale), member of the organizing committee (200 participants).

2019 Member of the Scientific organising committee: Sci-CADE 2019.

2023 Organiser of Geometric Integration and Computational Mechanics Workshop at the FoCM conference (by invitation only, also in 2020, 2017, 2014).

2023 Organiser of a mini-symposium at the Geometry Science of Information conference in St. Malo', France.

2024 Co-organising FoCM conference 2026. Ex officio as secretary of the FoCM society.

2022 and 2024 Orgaising HFSS - Highly Flexible Slender Structures, ECCOMAS Thematic Conference (2 editions).

## PROJECT MANAGEMENT EXPERIENCE

### EU

2019-2024 MSCA ITN THREAD coordinated by Martin Luther University, Halle, Germany, PI and leader of the Training Programme.

2011-2019 Project leader of *Collaborative Research in Structure Preservation*, IRSES project EU 7th Framework Program.

2016- Project leader of *Challenges in Preservation of Structure*, Research and Innovation Staff Exchange project, Marie S. Curie actions, Horizon 2020.

2023- MSCA Postdoctoral Fellowship - GeometricLAMs

2024- MSCA Staff Exchange - REMODEL, PI

## UK

2019 Principal organiser, [\*Geometry, compatibility and structure preservation in computational differential equations\*](#), 6 months scientific programme at the Isaac Newton Institute of Mathematical Sciences, Cambridge, UK. Various sources of funding, UK, more than 100 invitees funded by the programme.

## RCN

2009 Project coordinator of *GeNuln Applications*, project funded by the Research Council of Norway.

## COMMISSIONS OF TRUST

2018-2019 Member of the evaluation committee for the Dhalquist prize, SIAM.

2015-2020 Board member of International Congress of Industrial and Applied Mathematics (ICIAM)

2023- Vice President of ECMI. President elect.

2023-2026 Secretary of the society of Foundation of Computational Mathematics (FoCM).

2023 and 2024 Member of the awarding committee for [PREMIO JOSÉ LUIS RUBIO DE FRANCIA](#).

## MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES

2016- Member of the Royal Norwegian Society of Sciences and Letters (Elected).

## Selected invited plenary talks at conferences:

1. Geometry Science of Information, Toulouse, France, August 27 to 29, 2019.
2. Conference on Deep Learning for Computational Physics , University College London, 4-6 July, 2023.
3. Mathematisches Forschungsinstitut Oberwolfach Workshops,
  - a. Nonlinear evolution equations, February 2019;
  - b. Constrained Dynamics, Stochastic Numerical Methods and the Modeling of Complex Systems, May 2024;
  - c. Deep Learning for PDE-based Inverse Problems, October 2024.
4. Workshop on Structured Machine Learning and Time–Stepping for Dynamical Systems BIRS, Banff, Canada, February, 2024.
1. Exploiting Algebraic and Geometric Structure in Time-integration Methods, Scuola Normale Superiore di Pisa, 2024.
2. SciCADE – Scientific Computing and Differential Equations, 2024.

## Member of editorial boards

1. SIAM Review (SIAM)
2. Calcolo (Springer)
3. Journal of Computational Dynamics (AIMS)
4. Geometric Mechanics (WP)
5. Networks and Heterogeneous Media (AIMS)
6. Mathematics of Computation
7. SIAM Journal of Scientific Computing

**Total number of published papers in peered reviewed journals: 60**