

# Maria Strazzullo

NON-TENURE TRACK ASSISTANT PROFESSOR AT  
DISMA, POLITECNICO DI TORINO

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## Academic Experience

- Assistant professor** non-tenure tracked, at DISMA, Politecnico di Torino, Turin, Italy (January 2024 - ongoing)
- Postdoc** Excellence project fellowship at DISMA, Politecnico di Torino, Turin, Italy (January 2022 - January 2024)
- Fellowship** MathLab group, SISSA, Trieste, Italy (October 2021- December 2021)
- Ph.D.** Applied Mathematics, mathLab group, SISSA, Trieste, Italy (October 2017 - September 2021)
- Predoc** mathLab group, SISSA, Trieste, Italy (April 2017 - September 2017)

## Education

### International School for Advanced Studies (SISSA)

Trieste, Italy

PHD IN MATHEMATICAL ANALYSIS, MODELLING, AND APPLICATIONS

September 24, 2021.

- **Grade:** cum laude.
- **Thesis Title:** “Model Order Reduction for Nonlinear and Time-Dependent Parametric Optimal Flow Control Problems” — **Advisor:** Prof. Gianluigi Rozza, — **Co-Advisor:** Dr. Francesco Ballarin.

### Università degli studi di Trieste

Trieste, Italy

MASTER’S DEGREE IN MATHEMATICS

Sep 2014 - Mar 2017

- **Grade:** 110/110 cum laude.
- **Thesis Title:** “Reduced order methods for parametrized optimal flow control problems” — **Advisor:** Prof. Gianluigi Rozza — **Co-Advisors:** Prof. Renzo Mosetti, Dr. Francesco Ballarin.

### Università degli studi di Camerino

Camerino, Italy

BACHELOR’S DEGREE IN MATHEMATICS

Sep 2011 - Jul 2014

- **Grade:** 110/110 cum laude.
- **Thesis Title:** “La Teoria Dei Codici Autocorrettori” (“The theory of error-correcting codes”) — **Advisor:** Prof. Carlo Toffalori.

### Liceo Classico “Giacomo Leopardi”

Macerata, Italy

CLASSICAL CERTIFICATE

Sep 2006 - Jul 2011

## Publications

- [18] Paper M. Strazzullo, F. Ballarin, T. Iliescu and T. Chacón Rebollo “Variational Multiscale Evolve and Filter Strategies for Convection-Dominated Flows”, submitted, 2024, <https://arxiv.org/abs/2411.13957>.
- [18] Paper A. Borio, F. Marcon, and M. Strazzullo, “General Order Virtual Element Methods for Neumann Boundary Optimal Control Problems in Saddle Point Formulation”, submitted, 2024, <https://arxiv.org/abs/2411.08497>.
- [18] Paper M. Strazzullo, F. Ballarin, T. Iliescu, and C. Canuto, “New Feedback Control and Adaptive Evolve-Filter-Relax Regularization for the Navier-Stokes Equations in the Convection-Dominated Regime”, submitted, 2023, <https://arxiv.org/abs/2307.00675>.
- [17] Paper M. Strazzullo and F. Vicini, “POD-based reduced order methods for optimal control problems governed by parametric partial differential equation with varying boundary control”, Applied Mathematics and Computation, 2023, <https://doi.org/10.1016/j.amc.2023.128191>.
- [16] Paper F. Zoccolan, M. Strazzullo and G. Rozza, “Stabilized Weighted Reduced Order Methods for Parametrized Advection-Dominated Optimal Control Problems governed by Partial Differential Equations with Random Inputs”, Journal of Numerical Mathematics, <https://10.1515/jnma-2023-0006>.
- [15] Paper F. Zoccolan, M. Strazzullo and G. Rozza, “A Streamline upwind Petrov-Galerkin Reduced Order Method for Advection-Dominated Partial Differential Equations under Optimal Control”, Computational Methods in Applied Mathematics, 2024, <https://doi.org/10.1515/cmam-2023-0171>.

- [14] Chapter** D. Torlo, M. Strazzullo, F. Ballarin and G. Rozza, “Chapter 12: Weighted Reduced Order Methods for Uncertainty Quantification”, in *Advanced Reduced Order Methods and Applications in Computational Fluid Dynamics*, <https://doi.org/10.1137/1.9781611977257.ch12>.
- [13] Chapter** M. Strazzullo, F. Ballarin and G. Rozza, “Chapter 4: Finite Element-Based Reduced Basis Method for Optimal Flow Control”, in *Advanced Reduced Order Methods and Applications in Computational Fluid Dynamics*, <https://doi.org/10.1137/1.9781611977257.ch4>.
- [12] Chapter** F. Pichi, M. Strazzullo, F. Ballarin and G. Rozza, “Chapter 2: Finite Element-Based Reduced Basis Method in Computational Fluid Dynamics”, in *Advanced Reduced Order Methods and Applications in Computational Fluid Dynamics*, <https://doi.org/10.1137/1.9781611977257.ch2>.
- [11] Proceeding** E. Donadini, M. Strazzullo, M. Tezzele and G. Rozza, “A data-driven partitioned approach for the resolution of time-dependent optimal control problems with dynamic mode decomposition”, in ICOSAHOM proceedings, 2022, [https://doi.org/10.1007/978-3-031-20432-6\\_13](https://doi.org/10.1007/978-3-031-20432-6_13).
- [10] Paper** N. Demo, M. Strazzullo and G. Rozza “An Extended Physics Informed Neural Network For Preliminary Analysis of Parametric Optimal Control Problems”, *Computers & Mathematics with Applications*, 2023, <https://doi.org/10.1016/j.camwa.2023.05.004>.
- [9] Paper** M. Strazzullo, M. Girfoglio, F. Ballarin, T. Iliescu and G. Rozza “Consistency of the Full and Reduced Order Models for Evolve-Filter-Relax Regularization of Convection-Dominated, Marginally-Resolved Flows”, *International Journal for Numerical Methods in Engineering*, 2022, <https://doi.org/10.1002/nme.6942>.
- [8] Paper** M. Strazzullo, F. Ballarin, and G. Rozza “A Certified Reduced Basis Method for Linear Parametrized Parabolic Optimal Control Problems in Space-Time Formulation”, submitted, 2021, <https://arxiv.org/abs/2103.00460>.
- [7] Paper** G. Carere, M. Strazzullo, F. Ballarin, G. Rozza, R. Stevenson. “Weighted POD-reduction for parametrized PDE-constrained Optimal Control Problems with random inputs and its applications to environmental sciences”, *Computers & Mathematics with Applications*, volume 102, pp. 261-276, 2021, <https://doi.org/10.1016/j.camwa.2021.10.020>.
- [6] Chapter** F. Ballarin, G. Rozza and M. Strazzullo, “Space-time POD-Galerkin approach for parametric flow control”, in press, *Handbook of Numerical Analysis*, Elsevier, 2022, <https://doi.org/10.1016/bs.hna.2021.12.009>.
- [5] Paper** F. Pichi, M. Strazzullo, F. Ballarin, and G. Rozza “Driving bifurcating parametrized nonlinear PDEs by optimal control strategies: application to Navier-Stokes equations and model reduction”, *ESAIM: M2AN*, 2022, <https://doi.org/10.1051/m2an/2022044>.
- [4] Paper** M. Strazzullo, F. Ballarin, and G. Rozza, “POD-Galerkin Model Order Reduction for Parametrized Nonlinear Time Dependent Optimal Flow Control: an Application to Shallow Water Equations”, accepted in *Journal of Numerical Mathematics*, 2021, <https://doi.org/10.1515/jnma-2020-0098>.
- [3] Paper** M. Strazzullo, F. Ballarin, and G. Rozza, “POD-Galerkin Model Order Reduction for Parametrized Time Dependent Linear Quadratic Optimal Control Problems in Saddle Point Formulation”, *Journal of Scientific Computing*, 83(3), pp. 55, 2020, <https://doi.org/10.1007/s10915-020-01232-x>.
- [2] Proceeding** M. Strazzullo, Z. Zainib, F. Ballarin, and G. Rozza, “Reduced order methods for parametrized non-linear and time dependent optimal flow control problems, towards applications in biomedical and environmental sciences”, in ENUMATH2019 proceedings, 2020, [https://doi.org/10.1007/978-3-030-55874-1\\_83](https://doi.org/10.1007/978-3-030-55874-1_83).
- [1] Paper** M. Strazzullo, F. Ballarin, R. Mosetti and G. Rozza. “Model Reduction for Parametrized Optimal Control Problems in Environmental Marine Sciences and Engineering”, *SIAM J. Sci. Comput.*, 40(4), B1055–B1079 (25 pages), 2018, <https://doi.org/10.1137/17M1150591>.

## Talks at Conferences and Seminars

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### ARIA final workshop

INVITED SPEAKER

*Trieste, Italy*

*November 25-27, 2024*

- **Talk title:** ‘Enhancing spatial filters: VMS-filters and parameter optimization’.

### Seminario di Modellistica Differenziale Numerica, Sapienza

INVITED SPEAKER

*Roma, Italy*

*November 5, 2024*

- **Talk title:** ‘Dynamical Low-Rank Approximation for Nonlinear Feedback Control’.

### UniPi seminars

INVITED SPEAKER

*Pisa, Italy*

*September 9, 2024*

- **Talk title:** “Nonlinear Feedback Control via Dynamical Low-Rank Approximation”.

### AMS-UMI joint meeting 2024

INVITED SPEAKER

*Palermo, Italy*

*July 23-26, 2024*

- **Talk title:** “Dynamical low-rank approximations for parametric infinite horizon optimal control problems”.

### ECM 2024

INVITED SPEAKER

*Seville, Spain*

*July 15-19, 2024*

- **Talk title:** “Regularized Feedback Control strategies for Convection-Dominated Navier-Stokes Equations at Full and Reduced levels”.

### ECCOMAS 2024

INVITED SPEAKER

*Lisbon, Portugal*

*June 3-7, 2024*

- **Talk title:** “Certifying Bifurcations in ROMs: a Deflated-Greedy Algorithm for Enhanced Accuracy in Nonlinear Parametric PDEs”.

### ECCOMAS 2024

INVITED SPEAKER

*Lisbon, Portugal*

*June 3-7, 2024*

- **Talk title:** “Regularized Reduced Order Models for Convection-Dominated Flow Simulation: Stabilization, Prediction, Sensitivity and Control”.

### New trends in Optimal Control 2024

INVITED SPEAKER - **KEYNOTE**

*Venice, Italy*

*May 14-17, 2024*

- **Talk title:** “Regularized full and reduced feedback control strategies for convection-dominated Navier-Stokes equations”.

### SISSA Women in mathematics 2024

INVITED SPEAKER - **KEYNOTE**

*Trieste, Italy*

*May 13, 2024*

- **Talk title:** “Regularized Feedback Control strategies for Convection-Dominated Navier-Stokes Equations: Full and Reduced models”.

### MASCOT-NUM 2024

INVITED SPEAKER - **KEYNOTE**

*Hyères, France*

*April 3-5, 2024*

- **Talk title:** “Reduced Order Methods for Parametric Optimal Control: an Overview and Diverse Applications”.

### SIAMUQ 2024

INVITED SPEAKER

*Trieste, Italy*

*February 27-March 1, 2024*

- **Talk title:** “Evolve-Filter-Relax Regularization Strategies in Feedback Control for Convection-Dominated Navier-Stokes Equations at Full and Reduced Levels”.

### POD UQ 2024

INVITED SPEAKER - **KEYNOTE**

*Trieste, Italy*

*February 26, 2024*

- **Talk title:** “Optimization problems governed by PDEs under the influence of random variables”.

### GNCS 2024

INVITED SPEAKER

*Rimini, Italy*

*February 14-17, 2024*

- **Talk title:** “Metodi numerici per lo studio di strutture geometriche parametriche complesse”.

### EUCCO 2024

INVITED SPEAKER

*Heidelberg, Germany*

*September 25-28, 2023*

- **Talk title:** “Model order reduction for varying boundary optimal control problems”.

### ECCOMAS YIC 2023

INVITED SPEAKER

*Oporto, Portugal*

*June 19-21, 2023*

- **Talk title:** “Model order reduction for varying boundary optimal control problems”.

### Math 2 Product congress

INVITED SPEAKER

*Taormina, Italy*

*May 30-June 1, 2023*

- **Talk title:** “POD-Based Strategies For Varying Boundary Optimal Control”.

## International Workshop on Reduced Order Methods

INVITED SPEAKER - **KEYNOTE**

*Singapore*

*May 22-26, 2023*

- **Talk title:** “Model order reduction for parametric optimal control problems: overview and applications”.

## CFC Congress 2023

INVITED SPEAKER

*Cannes, France*

*April 25-28, 2023*

- **Talk title:** “Full and Reduced Evolve-Filter-Relax regularization in feedback control for convection-dominated Navier-Stokes equations”.

## SIAM CSE Congress 2023

INVITED SPEAKER

*Amsterdam, The Netherlands*

*February 26-March 3, 2023*

- **Talk title:** “Model Order Reduction for Parametric Optimal Control Problems in Space-Time Formulation”.

## ARIA-VT Seminar on Regularized ROMS

INVITED SPEAKER - **KEYNOTE**

*Blacksburg, USA (hybrid)*

*February 2, 2023*

- **Talk title:** “The role of Evolve-Filter-Relax Regularization in Feedback Control for convection-dominated Navier-Stokes Equations: full and reduced order model”.

## Matematica per l'Intelligenza Artificiale e il Machine Learning

CONTRIBUTED TALK

*Politecnico di Torino, Italy*

*November 24, 2022*

- **Talk title:** “Physics-informed Neural Networks for partial differential equations and optimal control in a parametric setting.”.

## Virginia Tech Math colloquium

INVITED SPEAKER

*Blacksburg, USA*

*November 17, 2022*

- **Talk title:** “Model order reduction for nonlinear and time-dependent parametrized optimal control problems.”.

## Emory mathematics seminars

INVITED SPEAKER

*Atlanta, USA*

*October 17, 2022*

- **Talk title:** “Model order reduction for parametrized optimal control problems: from time-dependency to nonlinearity.”.

## GIMC SIMAI YOUNG 2022

INVITED SPEAKER

*Pavia, Italy*

*September 29-30, 2022*

- **Talk title:** “Physics-informed Neural Networks for parametric partial differential equations and optimal control”.

## MORE 2022

CONTRIBUTED TALK

*Berlin, Germany*

*September 19-23, 2022*

- **Talk title:** “Full Order Model and Reduced Order Model Consistency for Evolve-Filter-Relax Regularization”.

## ECCOMAS 2022

INVITED SPEAKER

*Oslo, Norway*

*June 5-9, 2022*

- **Talk title:** “Optimal control and bifurcating systems: an application to Navier-Stokes equations”.

## Friedrich-Alexander-Universität Mini-Workshop on Model Reduction and Control

INVITED SPEAKER

*Online*

*May 24, 2022*

- **Talk title:** “Model order reduction for time-dependent parametrized optimal control problems”.

## SIAM Uncertainty Quantification Conference 2022

INVITED SPEAKER

*Online*

*April 12-15, 2022*

- **Talk title:** “Stabilized Reduced Order Methods for Transport Control Problems with Random Inputs”.

## Analysis Junior Seminar

INVITED SPEAKER

*Online*

*February 18, 2022*

- **Talk title:** “Full Order Model and Reduced Order Model Consistency for Evolve-Filter-Relax Regularization”.

## Pitt AWM Student Seminar Series

INVITED SPEAKER

*Online*

*December 3, 2021*

- **Talk title:** “The role of optimal control in bifurcating phenomena: an application to Navier-Stokes equations”.

## COUPLED 2021

CONTRIBUTED TALK

*Online*

*June 14-16, 2021*

- **Talk title:** “Reduced Order Methods for Uncertainty Quantification Problems applied to Optimal Control in Environmental Sciences”.

## FEniCS Conference 2021

CONTRIBUTED TALK

*Online*

*March 22-26, 2021*

- **Talk title:** “Reduced order methods for optimal flow control: FEniCS-based applications”.

## DISMA Seminar Series

INVITED SPEAKER

Online

March 22, 2021

- **Talk title:** “A Glimpse Of Reduced Order Methods For Parametrized Optimal Control Problems”.

## SIAM-CSE Congress 2021

INVITED SPEAKER

Online

March 1-5, 2021

- **Talk title:** “Reduced Order Methods for Space-Time Parametric Optimal Control Problems in Computational Fluid Dynamics”.

## SIAM-CSE Congress 2021

INVITED SPEAKER

Online

March 1-5, 2021

- **Talk title:** “Reduced Order Methods for Optimal Flow Control Problems: from time-dependency to nonlinearity”.

## WCCM-ECCOMAS Congress 2020

INVITED SPEAKER

Online

January 11-15, 2021

- **Talk title:** “Reduced Order Methods for Optimal Flow Control Problems: from time-dependency to nonlinearity”.

## MORSS 2020 - Model Order Reduction Summer School 2020

CONTRIBUTED TALK

Online

September 7-10, 2020

- **Talk title:** “Advances in Reduced Order Methods for Optimal Flow Control Problems”.

## SAMM 2020 - Learning Models from Data: Model Reduction, System Identification and Machine Learning

POSTER PRESENTATION

Online

July 19-24, 2020

- **Poster title:** “POD-Galerkin reduction for nonlinear time dependent optimal flow control problems with applications in environmental sciences” — **co-authors:** F. Ballarin and G. Rozza.

## Summer School on Reduced Order Methods in Computational Fluid Dynamics

SISSA, Trieste, Italy

LECTURER AND POSTER PRESENTATION

July 8-12, 2019

- **Lecture title:** “Reduced order methods for parametrized optimal flow control problems: applications in biomedical and environmental sciences” — **co-lecturer:** Z. Zainib.
- **Poster title:** “Reduced Order Methods Applied to Nonlinear Time Dependent Optimal Flow Control Problems in Environmental Marine Sciences and Engineering” — **co-authors:** F. Ballarin, R. Mosetti and G. Rozza.

## ADMOS 2019 - International Conference on Adaptive Modeling and Simulation

El Campello (Alicante), Spain

INVITED SPEAKER

May 27-29, 2019

- **Talk title:** “Reduced Order Methods for Nonlinear Time Dependent Optimal Flow Control Problems Applied to Environmental Marine Sciences and Engineering”.

## Analysis, Control and Inverse Problems for PDEs

Università Federico II, Napoli, Italy

INVITED SPEAKER

November 26-3, 2018

- **Talk title:** “Reduced Order Methods for Optimal Flow Control Problem with Application in Environmental Marine Sciences and Engineering”.

## MoRePas 2018 - Model Reduction for Parametrized System IV

École Centrale, Nantes, France

POSTER PRESENTATION

April 10-13, 2018

- **Poster title:** “POD-Galerkin reduced order methods for inverse problems and multi-physics problems in fluid dynamics” — **co-authors:** M. Nonino, Z. Zainib, F. Ballarin and G. Rozza.

## QUIET 2017 - Quantification of Uncertainty: Improving Efficiency and Technology

SISSA, Trieste, Italy

POSTER PRESENTATION

July 18-21, 2017

- **Poster title:** “Reduced Order Methods for Environmental Marine Problems by Optimal Flow Control” — **co-authors:** F. Ballarin, R. Mosetti and G. Rozza.

## Visits and Fellowships

**Visiting** Research in pairs fellowship with Dr. Luca Saluzzi, Centro Ennio De Giorgi, Pisa, Italy (September 6-13)

**Visiting** Invited researcher at University of Siviglia (June 2024 - July 2024)

**Visiting** Invited researcher at Virginia Tech, Interdisciplinary Center for Applied Mathematics (ICAM) (October 2023 - November 2023)

**Visiting** Invited researcher at University of Siviglia (July 2023 - August 2023)

**Visiting** Invited researcher at Virginia Tech, Interdisciplinary Center for Applied Mathematics (ICAM) (October 2022 - November 2022)

## Awards and Grants

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- Grant** ECCOMAS Young investigator Grant 2024 (15000 €).
- Grant** Participant in 2024 INDAM-GNCS project: “Metodi di riduzione di modello e approssimazioni di rango basso per problemi alto-dimensionali”.
- Grant** Travel funds to participate at EUCCO 2023.
- Grant** INdAM fellowship for a month abroad, 2023 (Virginia Tech).
- Grant** PI of INdAM - GNCS Project, code CUP\_E53C22001930001: “Metodi numerici per lo studio di strutture geometriche parametriche complesse”, 2023 (4300 €).
- Grant** GNCS grant for participating to ECCOMAS 2022 (1000 €).
- Award** Finalist: BGCE Prize at SIAM-CSE Congress, March 1-5, 2021.
- Award** Student Travel Award to participate to the SIAM Conference on Computational Science and Engineering, March 1-5, 2021.
- Scholarship** ECCOMAS Scholarship for participating at the Virtual Congress WCCM-ECCOMAS January 11 to 15, 2021.
- Award** Special Mention to PhD4Innovating contest. ESOF 2020, Trieste, Italy.
- Grant** MIT-Fiuli Venezia Giulia (FVG) Seed Fund 2019-2020: Data Assimilation, Models for Prediction and Control of Massachusetts Bay Water Acidification.
- Grant** Participant in 2018 INDAM GNCS: Model Reduction in Medical Applications.

## Teaching and Other Tasks

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### Teaching and co-advising

- **Support Lecturer** - Course of “Model Order Reduction and Machine Learning”, master degree in mathematical engineering, Politecnico di Torino, 2023, 2024, 2025
- **Support Lecturer** - Course of “Metodi e Modelli Numerici”, master degree in mechanical engineering, Politecnico di Torino, 2022, 2023, 2024, 2025.
- **Lecturer** Basic course on reduced order modelling at “Summer School on Reduced Order Methods in Computational Fluid Dynamics (Second edition)”, Trieste (July 2022).
- **Lecturer** Monographic Lecture on reduced order modelling for Optimal Control at “Summer School on Reduced Order Methods in Computational Fluid Dynamics (Second edition)”, Trieste (July 2022).
- **Support Lecturer** - AMMA PhD- MHPC course on “Reduced Order Methods for Computational Mechanics”, SISSA, 2022.
- **Lecturer** Monographic Lecture on reduced order modelling for Optimal Control at “Summer School on Reduced Order Methods in Computational Fluid Dynamics”, Trieste (July 2019).
- **Support Lecturer** - Course of “Numerical Analysis”, master degree in Data Science and Scientific Computing, (January 2018).

### Mentorship

- **Advisor** - Master thesis of Andrea Tataranni: “Physics Informed Neural Networks and Neural Tangent Kernel: preliminary results for parametric Optimal Control Problems”. Master degree in mathematical engineering, Politecnico di Torino, November (2024).
- **Co-advisor** - Master thesis of Susanna Olivero: “Deep Learning for boundary condition detection in PDEs”. Master degree in mathematical engineering, Politecnico di Torino, October (2024).
- **Co-advisor** - Master thesis of Ilaria Anselmi: “Modellazione multi-scala di un incendio in galleria”. Master degree in mathematical engineering, Politecnico di Torino, October (2024).
- **Co-advisor** - Master thesis of Carlotta Filippin: “Nonlinear reduced-order modeling with a Graph Convolutional Autoencoder for time-domain electromagnetics”. Master degree in mathematical engineering, Politecnico di Torino, October (2024).
- **Co-advisor** - Master thesis of Fabio Zoccolan: “Stabilised reduced order methods for advection-diffusion optimal control problems with random inputs”. Master degree in Mathematics, University of Trieste, Italy, December (2021).
- **Co-advisor** - Master thesis of Eleonora Donadini: “A Data-Driven Approach for Time-Dependent Optimal Control Problems by Dynamic Mode Decomposition”. Master degree in Data Science and Scientific Computing, University of Trieste, Italy, (May 2021).
- **Co-advisor** - Master thesis of Giuseppe Carere: “Reduced Order Methods for Optimal Control Problems constrained by PDEs with random inputs and applications”. Master degree in mathematics, Korteweg-de Vries Institute for Mathematics, the Netherlands, (January 2019).

### Other tasks

- **Scientific Commitees:** COUPLED 2025, Scientific Machine Learning: Emerging Topics 2024.
- **Reviewer:** SIAM Journal on Control and Optimization, Computer Methods in Applied Mechanics and Engineering, International Journal for Numerical Methods in Engeeniring, International Journal for Numerical Methods in Fluids, Mathematics, Computers and Mathematics with Applications, Applied Mathematics and Computation, International Journal of Heat and Fluid Flow, Journal of Scientific computing, Advances in Computational Mathematics, Journal of Computational Physics, Frontiers in Applied Mathematics and Statistics, Proceedings in Applied Mathematics and Mechanics, International Journal of Computational Fluid Dynamics.
- **Organizer of Mini-symposia:** COUPLED 2025, SIAM UQ24, ECCOMAS24, WCCM24.
- **Organizer:** NA-G-Roms seminars (2023-ongoing).
- **Organizer:** Analysis Junior Seminars, SISSA, 2019 - 2021. SISSA Women in Mathematics 2021.
- **Student Association President:** SISSA SIAM Student Chapter, October 2020 - October 2021.
- **Student Association Vicepresident:** SISSA SIAM Student Chapter, October 2019 - September 2020.
- **Educational volunteer:** SISSA 4 SCHOOLS program, 2019 - present.
- **Educational Seminar:** "Pint of Science Festival".
- **Internship:** formulation of a Finite Element simulation of Quasi-Geostrophic equation in the North-Atlantic Ocean at OGS (National Institute of Oceanography and Applied Geophysics), 2016.