Curriculum Vitae

Simona ROTA NODARI
Born on August 28, 1984
Married, 1 child
French and Italian Citizen
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Research Interests

Nonlinear PDE's and variational methods, mathematical and numerical methods in relativistic quantum mechanics and in relativistic mean-field theory of atomic nuclei, PDE's in general relativity, renormalized energy for Couloumb and Riesz gases, PDEs in nonlinear optics

Positions

2024 - 2029	Junior member of the Institut Universitaire de France
2021 -	Professeur des Universités at Laboratoire Jean Alexandre Dieudonné, Université Côte d'Azur
2015 - 2021	Maître de Conférences, Institut de Mathématiques de Bourgogne, Université de Bourgogne
2013 - 2015	Postdoctoral fellowship, Laboratoire Paul Painlevé, Université Lille 1, hosted by Stephan De Bièvre
2012 - 2013	Postdoctoral fellowship, Laboratoire AGM, Université de Cergy-Pontoise, hosted by Mathieu Lewin
2011 - 2012	Postdoctoral fellowship, CNRS, Laboratoire Jacques-Louis Lions, hosted by Sylvia Serfaty
2008 - 2011	Doctoral fellowship, Université Paris-Dauphine

Education/Degrees

2020 - 2021	HDR in Applied Mathematics, Université de Bourgogne, France. Defended on February 12, 2021. Title: *Contributions to the mathematical study of models from classical and quantum physics*
2008 - 2011	PhD in Applied Mathematics, Université Paris-Dauphine, France and Università degli Studi di Milano, Italy. Thesis defended on July 6, 2011. Title: *A mathematical study of nonlinear models from relativistic quantum physics* Advisors: Éric Séré et Bernhard Ruf

Funding, Scholarships and Prizes

2024 ANR PRME MADynOS project
2024 IUF Junior chair
2017 ANR JCJC DYRAQ project
2016 PEPS "Jeunes chercheur-e-s"
2010 Merit Prize *Virlogeux en Science* awarded by *Chancellerie des universités de Paris*
2006 Scholarship for students in Mathematics from *Istituto Nazionale di Alta Matematica*

Scientific responsabilities

December 2026	**Co-organizer of the workshop** "Advances in analysis in Nice" at Laboratoire J.A. Dieudonné, Nice
October 2026	**Co-organizer of the conference** "Spectral theory applied to physics (II)" at CIRM, Marseille
March 2026	**Co-organizer of the conference** "Journée SMAI MODE 2026" at Hôtel Saint-Paul , Nice
March 2026	**Co-organizer of the conference** "18th Meeting of the GDR DYNQUA" at Laboratoire J.A. Dieudonné, Nice
February 2026	**Co-organizer of the workshop** "Dynamical and quantum systems, Éric Séré's birthday" at Laboratoire J.A. Dieudonné, Nice
March 2025 -	**PI of the ANR PRME MADynOS project:** Many-body dynamics in open systems
January 2025	**Co-organizer of the conference** "Journées Jeunes Edpistes en France" at Laboratoire J.A. Dieudonné, Nice
January 2025	**Co-organizer of the workshop** "Nice Shock Waves" at Laboratoire J.A. Dieudonné, Nice
2023 - 2026	**Co-organizer of the Colloquium** at the Laboratoire J.A. Dieudonné, Université Côte d'Azur
January 2023 -	**Member of the committee of the French thematic networks AEDP :** Analyse des Équations aux Dérivées Partielles
January 2023 -	**Member of the ANR JCJC SING project:** Singularities of energy-minimizing vector-valued maps
January 2023	**Co-organizer of the conference** "The analysis of relativistic quantum systems" at CIRM, Marseille
May 2022	**Co-organizer of the conference** "PDEs and Relativistic Quantum Mechanics" at Laboratoire J.A. Dieudonné, Nice
2021 - 2025	**PI of the** EUR-EIPHI Université de Bourgogne and Bourgogne-Franche-Comté region **EEQuaR project:** Équations Effectives en Dynamique Quantique Relativiste
March 2021	**Co-organizer of the conference** "13th (Online) Meeting of the GDR DYNQUA" initially planned to be held in Dijon
January 2020 -	**Member of the GDR CALVA :** Calcul des variations et théorie géométrique de la mesure

September 2019	**Co-organizer of the conference** "Classical and quantum integrability" à l'Institut de Mathématiques de Bourgogne
June 2018	**Co-organizer of the workshop** "The Analysis of Dirac equations" à l'Institut de Mathématiques d'Orsay
2018 - 2022	**PI of the ANR JCJC DYRAQ project:** Dynamics of relativistic quantum systems
2018 - 2022	**Member of the ANR-FWF ANuI project:** Analytical, Numerical and Integrable systems approaches for nonlinear dispersive partial differential equations
2018 - 2022	**Member of the IPaDEGAN network:** Integrable Partial Differential Equations: Geometry, Asymptotics, and Numerics
2017 - 2018	**Member Van Gogh project:** Nonlinear Waveguides
January 2017 - 2016	**Member of the GDR DYNQUA:** Dynamique quantique **PI of the PEPS - Jeunes Chercheur-e-s :** Autour de la cristallisation dans les systèmes de points avec interactions de Riesz
2016 - 2021	**Co-organizer of the ICB/IMB/LMB working group** Institut de Mathématiques de Bourgogne, Laboratoire Interdisciplinaire Carnot de Bourgogne and Laboratoire de Mathématiques de Besançon.
2015 - 2021	**Co-organizer of the Mathematical Physics team seminar** at the Institut de Mathématiques de Bourgogne

Associate Editor: Evolution Equations and Control Theory (EECT)

Rewiever for : SIAM Journal on Mathematical Analysis, Monatshefte für Mathematik, Zeitschrift für Angewandte Mathematik und Physik, Mathematische Nachrichten, ESAIM: Control, Optimisation and Calculus of Variations, Journal of Mathematical Physics, Acta Applicandae Mathematicae, Analysis & PDE, Calculus of Variations and Partial Differential Equations, Journal of Functional Analysis, Nonlinearity.

Other activities and responsabilities

March 2026 -	**Member** of the Scientific committee of the thematic axis DynQua (Quantum Dynamics) of the Réseau thématique Mathématiques et Physique (RT-MP)
January 2024 -	**Appointed member** of the Scientific Council of INSMI, Comité National de la Recherche Scientifique (CoNRS)
2023 - 2024	**Head** of 2nd year of Mathematics, Université Côte d'Azur
August 2023 -	**INSMI parity/equality referent** for the Laboratoire J.A. Dieudonné, Université Côte d'Azur
2023 - 2024	**Elected member** of the Scientific and Educational Council of the SPECTRUM Graduate School, Université Côte d'Azur
October 2022	**Member of the jury** of the Pierre Laffitte thesis prize, Mines Paris-PSL et Fondation Mines ParisTech
October 2022 –	**Elected member** of the Scientific Council of the Laboratoire J.A. Dieudonné, Université Côte d'Azur
October 2022 –	**Appointed member** of the board of the Doctoral School in fundamental and applied sciences ED.SFA, Université Côte d'Azur

June 2020	**Member of the jury of the Mathematical Physics master**, Université de Bourgogne
2019 - 2021	**Elected deputy member** of the Conseil National des Universités, section 26
2019 - 2021	**Vice-president** of the Bureau de commissions de proposition de l'Université de Bourgogne, sections 25/26, collège B
2018 - 2021	**Member of jury** of the *agrégation externe section mathématiques* (competitive examination for civil service in the French public education system)
2017 - 2021	**Elected member** of the Council of the Institut de Mathématiques de Bourgogne

HDR jurys

Member of jury	2024	Luca Nenna (Université Paris-Saclay), David Gontier (Université Paris-Dauphine), Bruno Marcos (Université Côte d'Azur)
	2023	Maxime Ingremeau (Université Côte d'Azur)

PhD jurys

Reviewer	2026	Éric Vacelet (Université Angers)
	2023	Johannes Agerskov (University of Copenhagen), Jimmy Payet (Université de Lorraine)
	2022	Gaspard Kemlin (École des Ponts ParisTech)
Member of jury	2025	Cyril Malézé (Institut Polytechnique de Paris)
	2023	Enguerrand Lavigne Bon (Aix-Marseille Université)
	2022	Ramon Oliver-Bonafoux (Sorbonne Université), Badreddine Benhellal (Université de Bordeaux), Phan Van Tin (Université Toulouse Paul Sabatier)
	2020	Long Meng (Université Paris-Dauphine)
	2017	Tianxiang Gou (Université de Bourgogne-Franche-Comté), Cyril Godey (Université de Bourgogne-Franche-Comté)

Hiring committees (external member)

2025	25/26 MCF Université Paris-Saclay, 25/26 PR Université Marie et Louis Pasteur
2024	25/26 MCF 127 Université de Rennes, 25 PR 4521 Université Angers
2023	26 MCF 4316 Université Paris-Dauphine, 25/26 MCF 0736 Université de Bordeaux, 30/28 CPJ 4754 Université de Bourgogne
2022	26 MCF 0052 Université de Lille
2021	25/26 MCF 0202 Université d'Orléans, 26 MCF 1385 Université de Lorraine
2020	26 MCF 4679 Université de Strasbourg
2016	26 MCF 0470 Université Toulouse 3

Hiring committees (local member): 5

Outreach and other activities

2025, 2026	Prix Katherine Johnson, détection des jeunes étoiles en mathématiques, Laboratoire J.A. Dieudonné, Université Côte d'Azur
2025	RJMI Rendez-vous des jeunes mathématiciennes et informaticiennes, CIV Valbonne, Terra Numerica
2024, 2025, 2026	Mathcamp, Laboratoire J.A. Dieudonné, Université Côte d'Azur
2022, 2023, 2024, 2025	Fête de la Science, Nice

Scientific supervision

PhD Thesis

2025 -	**Co-advisor of the PhD thesis in Mathematics** (with L. Nenna) of Mattia Garatti (Université Paris-Saclay)
2025 -	**Co-advisor of the PhD thesis in Mathematics** (with P. Gravejat) of Léone Netter (CY Cergy Paris Université)
2025 -	**Co-advisor of the PhD thesis in Mathematics** (with B. Marcos) of Thomas Oudeville (Université Côte d'Azur)
2021 - 2025	**Co-advisor of the PhD thesis in Mathematics** (with N.Boussaid and J. Lampart) of Meriem Bahhi (Université de Bourgogne)

2nd year MSc thesis

2025 - 2026	Mathis Dauchy (Université Côte d'Azur)
2024 - 2025	Thomas Oudeville (Université Côte d'Azur)
2023 - 2024	Esma Benaissa (Université Tlemcen)
2022 - 2023	Loth Damagui Chabi (Université Sorbonne Paris Nord), Imed-Eddine Benmehdi (Université de Tlemcen)
2020 - 2021	Jerôme Bolmont (Université de Franche-Comté)
2018 - 2019	Tunde Joseph Osunmusanmi (Université de Bourgogne)
2016 - 2017	Joseph Sahyoun (Université de Bourgogne)

1st year MSc thesis : 8

Publications

(with D. Gontier, S. Lahbabi), *Existence and non-existence of minimizers for a multi-particle model with concave nonlinearity*, Annales Henri Poincaré (2026)

(with M. Bahhi, C. Klein, J. Lampart), *A numerical study of stability for solitary waves of a quasi-linear Schrödinger equation*, Journal of Nonlinear Science, vol. 36, (2026).

(with F. Genoud), *Standing wave solutions of a quasilinear Schrödinger equation. Part I: The low frequency limit*, Nonlinear Differ. Equ. Appl. NoDEA, vol. 33, (2026).

(with T. Goudon), *A simple testbed for stability analysis of quantum dissipative systems*, Ann. Henri Poincaré, vol. 26, (2024).

(with T. Goudon), *Plane wave stability analysis of Hartree and quantum dissipative systems*, Nonlinearity, vol. 36, (2023), 6639.

(with J. Lampart, L. Le Treust, J. Sabin), *The Dirac-Klein-Gordon system in the strong coupling limit*, Annales Henri Lebesgue, vol. 6 (2023), pp. 541-573.

(with G. Dujardin, A. Armaroli, A. Mussot, A. Kudlinski, S. Trillo, M. Conforti, S. De Bievre), *Modulational instability in optical fibers with randomly-kicked normal dispersion*, Phys. Rev. A 103,(2021), 053521.

(with C. Klein) *On a nonlinear Schrödinger equation for nucleons in one space dimension*, ESAIM: M2AN vol. 55(2), (2021), pp. 409 - 427.

(with M. Lewin) *The double-power nonlinear Schrödinger equation and its generalizations: uniqueness, non-degeneracy and applications*, Calc. Var. 59, (2020).

(with S. De Bièvre), *Orbital stability via the energy-momentum method: the case of higher dimensional symmetry groups*, Arch. Rational Mech. Anal. 231, (2019), pp. 233–284.

(with M. Petrache), *Equidistribution of jellium energy for Coulomb and Riesz Interactions*, Constr. Approx. 47, (2018).

(with M. Conforti, A. Mussot, A. Kudlinski, G. Dujardin, S. De Bièvre, A. Armaroli, S. Trillo), *Heteroclinic structure of parametric resonance in the nonlinear Schrödinger equation*, Phys. Rev. Lett. 117, (2016), 013901

(with S. De Bièvre and F. Genoud), *Orbital stability: analysis meets geometry*, in Nonlinear Optical and Atomic Systems, Lecture Notes in Mathematics 2146, (2015), 147–273.

(with M. Conforti, G. Dujardin, A. Kudlinski, A. Mussot, S. Trillo and S. De Bièvre), *Modulational instability in dispersion-kicked optical fibers*, Phys. Rev. A 92, (2015), 013810.

(with M. Lewin), *Uniqueness and non-degeneracy for a nuclear nonlinear Schrödinger equation*, Nonlinear Differ. Equ. Appl. (NoDEA) 22(4) (2015), 673–698.

(with S. Serfaty), *Renormalized energy equidistribution and local charge balance in 2D Coulomb systems*, Int. Math. Res. Not. IMRN 11 (2015), 3035–3093.

(with L. Le Treust), *Symmetric Excited States for a Mean-Field Model for a Nucleon*, J. Differential Equations 255(10) (2013), 3536-3563.

(with M.J. Esteban), *Ground States for a Stationary Mean-Field Model for a Nucleon*, Ann. Henri Poincaré 14(5) (2013), 1287–1303.

(with M.J. Esteban), *Symmetric ground states for a stationary relativistic mean-field model for nucleons in the nonrelativistic limit*, Rev. Math. Phys. 24(10) (2012).

The relativistic mean-field equations of the atomic nucleus, Rev. Math. Phys. 24(4) (2012), 1250008.

Perturbation method for particle-like solutions of the Einstein-Dirac-Maxwell equations, C. R. Acad. Sci. Paris, Ser. I 348 (2010).

Perturbation Method for Particle-like Solutions of the Einstein-Dirac Equations, Ann. Henri Poincaré, vol. 10(7), 1377-1393, (2010).

Conference proceedings

(with M. Conforti, A. Mussot, A. Kudlinski, G. Dujardin, S. De Bièvre, A. Armaroli and S. Trillo), *Heteroclinic structure of parametric resonance in fibers with periodic dispersion*, in Photonics and Fiber Technology 2016.

(with M. Conforti, A. Mussot, A. Kudlinski, G. Dujardin, S. De Bièvre, A. Armaroli and S. Trillo), *Nonlinear Stage of Modulation Instability in Dispersion Oscillating Fibers*, in Conference on Lasers and Electro-Optics 2016.

(with M. Conforti, G. Dujardin, A. Kudlinski, A. Mussot, S. Trillo, S. De Bièvre), *Modulation instability in periodically dispersion kicked optical fibers*, in Conference on Lasers and Electro-Optics - European Quantum Electronics Conference (CLEO/EUROPE - EQEC) 2015.

Preprints

(with M. Bahhi, J. Lampart), *A quasi-linear Schrödinger equation for nucleons : existence, uniqueness and asymptotic behavior*, arXiv:2609.31139

(with M. Garatti, L. Nenna, L. Tamanini), *A PDE approach to Benamou-Brenier formula for the Schrödinger problem*, arXiv:2604.26023.

Survey

Mesures de Gibbs non linéaires et limites de champ moyen pour les systèmes quantiques , d'après Lewin, Nam et Rougerie, Séminaire Bourbaki (2024)

Talks

International conferences : 43

2026	Oct.	Workshop *Shape optimization, PDE, and Nonlinear Analysis*, Toulon, France
	Apr.	Conference *Mathematical aspects of the physics with non-self-adjoint operators*, CIRM, Marseille, France
2025	Dec.	Conference *Emergent phenomena in many-body quantum systems*, CIRM, Marseille, France
	Nov.	Conference *Variational methods for topological patterns arising in physics*, LYSM, Roma, Italy.
	Oct.	Workshop *Mind the Gap*, Kochel am See, Germany
	May	*Mathematics of Condensed Matter Systems*, Milano, Italy
	May	*CY Days in Nonlinear Analysis 2025*, Neuville-sur-Oise, France
2024	Dec.	Conference *Mathematical Physics and PDEs*, Herrsching, Germany
	Dec.	Conference *Numerical and analytical approaches for nonlinear dispersive PDEs*, Institut de Mathématiques de Bourgogne, Université de Bourgogne, France
	Oct.	Workshop *PDE days in Maremma*, Terme di Sorano, Italy
	Sept.	Conference *Singularity Formation for Nonlinear PDEs*, St Catharine's College, Cambridge, UK
	Mar.	Workshop *Long time behaviour of quantum and classical systems*, IRMAR, Université de Rennes, Rennes, France
	Feb.	Workshop *Variational Models in Materials Science*, Naples, Italy
	Jan.	*Spectral Analysis for Quantum Hamiltonians* CIRM, Marseille, France
2023	June	*Ulysseus Spring School in PDEs (USSPDE)*, Seville, Spain
	Jan.	*The analysis of relativistic quantum systems* CIRM, Marseille, France
2022	Sept.	Workshop *The Statistical Physics of Continuum Particle Systems with Strong Interactions*, Institut for Mathematical Sciences, National University of Singapore, Singapore
	July	*The Dirac equation*, Institut de Mathématiques de Bordeaux, Université de Bordeaux, France
	June	*Determinantal and permanental point processes, quantum physics, and signal processing*, ENS Lyon, Lyon, France
	May	*Nonlinear Dispersive Equations*, Institut de Mathématiques de Toulouse, Université Paul Sabatier, France
	Feb.	Workshop *14th Meeting of the GDR Quantum Dynamics*, Institut de Mathématiques de Toulouse, Université Paul Sabatier, France
2021	Nov.	Workshop *Inverse Problems and Related Fields*, FRUNAM, Université Aix-Marseille, France
	May	*Schrödinger equations: normal forms, quantum mechanics, and nonlinear aspects* , Le Croisic, France
2020	Jan.	*Workshop on singularities in variational models*, Université Paul Sabatier, Toulouse, France

2019 Nov. *French Latin-American Conference on New Trends in Applied Mathematics*, Universidad de Chile, Santiago, Chile
Oct. *The Analysis of Complex Quantum Systems: Large Coulomb Systems and Related Matters*, CIRM, Marseille, France
Oct. Workshop *Numerical and analytical approaches for nonlinear dispersive PDEs*, Université de Bourgogne, Dijon, France
June *Waves Côte d'Azur*, Université Côte D'Azur, Nice, France
May Workshop *Champ moyen et autres modèles effectifs en physique mathématique*, Fondation les Treilles, Tourtour, France
Jan. Workshop *Optimal Transport Methods in Density Functional Theory*, BIRS, Banff, Canada
2018 Nov. Workshop *Brown measures and non-normal random matrices*, Institut de Mathématiques de Toulouse, Toulouse, France
Feb. *Optimal and Random Point Configurations*, ICERM, Providence, USA
2017 Apr. *Spectral Days 2017*, Stuttgart, Germany
2016 July *11th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Orlando, USA
2015 Feb. *Mathematical Physics GDR DYNQUA Annual Meeting*, Centre Henri Lebesgue, Nantes, France
Jan. *Besançon colloquium on dispersive PDE's and related problems*, Besançon, France
Jan. *IDTPSI: Theory and Numerics*, Laboratoire J.A. Dieudonné, Nice, France
2014 July *10th AIMS Conference on Dynamical Systems Differential Equations and Applications*, Madrid, Spain
2014 Apr. Workshop *Analysis of Relativistic and Non-Relativistic models in Quantum Mechanics*, Sapienza Università di Roma, Roma, Italy
2013 Apr. *Variational and spectral methods in Quantum Field Theory*, Institut Henri Poincaré, Paris, France
Apr. *Maths Physics Young Researchers Meeting*, Institut Henri Poincaré, Paris, France
2012 July Workshop *New Developments in Relativistic Quantum Mechanics and Applications*, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK
2011 Apr. Workshop *3rd Meeting of the GDR Quantum Dynamics*, MAPMO, Orléans, France

National conferences: 6

2026 June *Journées EDP*, Aussois, France
2024 Mar. *Excursions en Physique Mathématique : allers-retours classique-quantique*, Conférence en l'honneur du 65ème anniversaire de Stephan De Bièvre, Université de Lorraine, Institut Elie Cartan de Lorraine, Metz, France
2023 Jan. *Journée de rentrée du GT CalVa*, Paris, France
2021 Mar. *Journées Jeunes EDPistes*, Besançon, France
2019 Mar. *Journées EDP de l'Institut Élie Cartan de Lorraine*, Université de Lorraine, Metz, France
2014 Mar. *Journées Jeunes EDPistes Français*, Villa Clythia, Fréjus, France

Seminars: 44

2026	May	*Bridging ANAlysis and Numerics at the Atomic Scale*, Online seminar
	Apr.	*Séminaire Orléans*, Institut Denis Poisson, Orléans, France
2025	Apr.	*Séminaire Probabilités, Physique Mathématique et Analyse (2PMA)*, LAREMA, Université Angers, France
2024	Nov.	*Séminaire Analyse Numérique et EDP*, Mathématiques Orsay, Université Paris Saclay, France
2023	Oct.	*Séminaire Physique-Mathématique*, Institut Fourier, Université Grenoble Alpes, France
2023	June	*Colloquium du laboratoire J.A. Dieudonné*, LJAD, Université Côte d'Azur, France
	June	*The Quantum Lunch*, QMATH, University of Copenhagen, Danemark
	Mer.	*Séminaire Dynamique Quantique et Classique*, CPT, Université de Toulon, France
2022	June	*Munich-Aarhus-Santiago Seminar in Mathematical Physics*, *Online*
	Apr.	*Séminaire EDP et Physique mathématique*, LAGA, Université Sorbonne Paris Nord, France
	Mar.	*Séminaire Équations aux dérivées partielles*, IRMAR, Université de Rennes 1, France
2021	Oct.	*Séminaire de l'équipe Analyse Numérique-EDP*, Laboratoire Paul Painlevé, Université de Lille, France
	June	*Séminaire de l'équipe EDP Analyse*, Institut Camille Jordan, Université Claude Bernard Lyon 1, France
	Apr.	*Séminaire de l'équipe EDP Analyse Numérique*, Laboratoire J.A. Dieudonné, Université Côte d'Azur, France *Online*
	Mar.	*Online Seminar of Analysis* , École Polytechnique Fédérale de Lausanne, Switzerland
2020	Dec.	*Séminaire LieGA Institut Élie Cartan*, Université de Lorraine, France, *Online*
2019	Dec.	*Seminar Calculus of Variations and Applications*, Ludwig-Maximilians Universität München, Munich, Germany
	Oct.	*Séminaire: Problèmes Spectraux en Physique Mathématique*, IHP, Paris, France
2018	Feb.	*Séminaire EDP*, Université de Rennes 1, Rennes, France
2017	June	*Séminaire de l'équipe EDP Analyse Numérique*, Université Côte D'Azur, Nice, France
	Jan.	*Séminaire Équations aux Dérivées Partielles*, Université de Franche-Comté, Besançon, France
2016	July	*Seminar*, Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
2015	July	*Seminar*, Universität Stuttgart, Stuttgart, Germany
	Apr.	*Seminar*, Ludwig-Maximilians-Universität München, Münich, Germany
	Apr.	*Séminaire d'analyse appliquée* A^3, Université de Picardie Jules Verne, Amiens, France
	Mar.	*Séminaire Mathématique Physique*, Université de Bourgogne, Dijon, France

2014 Dec. *Séminaire Analyse numérique - Équations aux dérivées partielles*, Université Lille 1, Villeneuve d'Ascq, France
Nov. *Séminaire Problèmes Spectraux en Physique Mathématique*, Institut Henri Poincaré, Paris, France
Apr. *Séminaire EDP-Physique Mathématique*, Université Bordeaux 1, Talence, France
Mar. *Séminaire Physique Mathématique*, Université Joseph Fourier Grenoble, St Martin d'Hères, France
Feb. *Séminaire du Laboratoire de Mathématiques de Reims*, Université de Reims, Reims, France
2013 Oct. *Séminaire Physique Mathématique*, Université Lille 1, Villeneuve d'Ascq, France
May *GT Calcul des variations X/Orsay*, Université Paris-Sud, Orsay, France
Mar. *Séminaire Analyse numérique - Équations aux dérivées partielles*, Université Lille 1, Villeneuve d'Ascq, France
Feb. *Séminaire d'Algèbre-Géométrie*, Université de Bretagne Occidentale, Brest, France
2012 June *GT Physique Mathématique*, Université Cergy-Pontoise, Cergy-Pontoise, France
Feb. *Séminaire Analyse-EDP*, Université de Franche-Comté, Besançon, France
2011 Dec. *GT d'analyse non linéaire et EDP*, Laboratoire Jacques-Louis Lions, Paris, France
Nov. *Séminaire d'analyse*, École Polytechnique Fédérale de Lausanne, Switzerland
Apr. *GT Méthodes Variationnelles en Physique Quantique*, Université Paris-Dauphine, France
2010 Dec. *Séminaires d'analyse non linéaire ULB–UCL–Umons*, Université Libre de Bruxelles, Bruxelles, Belgium
June *Seminario del Dipartimento di Matematica Applicata*, Università di Milano Bicocca, Milano, Italy
Jan. *Séminaire du GDR Champs moyens attractifs en mécanique classique et quantique*, Université Paris-Dauphine, France
2009 Oct. *Seminario Analisi non lineare*, Università degli Studi di Milano, Italy

Posters: 4

2021 Aug. *International Congress on Mathematical Physics*, Geneva, Switzerland
2013 Oct. *IVe Colloque EDP-NORMANDIE*, Caen, France
2010 Apr. Conference *Differential and topological problems in modern theoretical physics*, SISSA, Trieste, Italy
Apr. Conference *PDEs, relativity & nonlinear waves*, Granada, Spain

Research visits

EPFL Lausanne, Oberwolfach, LMU Munich, PUC Santiago, TU Delft, Max Planck Institute for Mathematics, Fields Institute for Research in Mathematical Sciences, Forschungsinstitut für Mathematik ETH Zürich, Isaac Newton Institute for Mathematical Sciences, ULB Bruxelles

Teaching (Last 5 years)

CM = lectures, TD = pratical tutorials, Colles = oral exams.

2025 - 2026 Université Côte d'Azur
CM and TD Fourier Analysis and distribution (1st year MSc)

2024 - 2025 Université Côte d'Azur
CM Fourier Analysis and distribution (1st year MSc)
Module: Oral Presentation in Analysis and Algebra (2nd year MSc Agrégation)
Module: Mathematics Presentation (1st year MSc)

2023 - 2024 Université Côte d'Azur
CM and TD Advanced PDEs: Nonlinear Schrödinger equation (2nd year MSc)
CM and TD Analysis (2nd year BSc)
TD Introduction to functional analysis (3rd year BSc)
Colles (2nd and 3rd year BSc)

2023 Summer School Semiclapp: Semiclassical analysis and applications
TD Tools of semiclassical analysis 3h

2022 - 2023 Université Côte d'Azur
CM and TD Advanced PDEs: Nonlinear Schrödinger equation (2nd year MSc)
CM and TD Analysis (2nd year BSc)
TD Introduction to functional analysis (3rd year BSc)
Tutorial Functional Analysis and Hilbert spaces (1st year MSc)
Colles (2nd and 3rd year BSc)

2022 Lectures Sophie Kowalevski (Angers)
Introduction to distribution theory 8h (1st year MSc)

2021 - 2022 Université Côte d'Azur
CM and TD Analysis (2nd year BSc)
TD Introduction to functional analysis (3rd year BSc)
TD Analysis (2nd year BSc)
Tutorial Functional Analysis and Hilbert spaces (1st year MSc)
Colles (2nd and 3rd year BSc)