

POLIZZI Bastien

Assistant Professor in mathematics
Laboratory of Mathematics of Besançon
University Marie and Louis Pasteur

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Research subjects:

- Continuum mechanics and mixture theory: application to biology
- Numerical methods for PDE systems of advection-reaction-diffusion equations
- Hyperbolic system of conservation laws with constraint, application to road traffic
- Well-balanced and asymptotic-preserving numerical schemes for PDEs
- Kinetic models for biology and quadrature-based moment methods
- Integro-differential equations: application to evolutionary theory

Academic professional experiences:

- Since 2019 **Assistant Professor**, *Laboratoire de Mathématiques de Besançon*, Université Marie et Louis Pasteur, Team: Numerical Analysis and Scientific Computation
- 2018 to 2019 **Post-Doctorant in mathematics**, *Institut Camille Jordan*, University of Lyon 1, project: ERC MESOPROBIO of Vincent CALVEZ
- 2018 Jan. to Jun. **Post-Doctorant in mathematics**, *Fields Institute for Research in Mathematical Sciences & University of Waterloo*, Toronto, Canada
Thematic Program on Emerging Challenges in Mathematical Biology
- 2016 to 2017 **Post-Doctorant in mathematics**, *Institute of Fluid Mechanics of Toulouse (IMFT)*, France, Project BIREM: BIological, REacting, Multiphase flows, co-advised by: Rodney O. FOX, Pascal FEDE and Jérôme MORCHAIN
Mathematical modeling of bioreactors: from cell to reactor scale
- 2013 to 2016 **PhD student in mathematics**, *Laboratory J. A. Dieudonné*, University Côte d'Azur, Nice, France, Co-advised by: Thierry GOUDON and Magali RIBOT
Modeling and numerical simulations for fluid mechanics systems with constraints; application to biology and road traffic Teaching duty: 64 hours per year
- March 2013 to July 2013 **Internship in applied mathematics**, *Laboratory J. A. Dieudonné*, University Côte d'Azur, Nice, France, Co-advised by: Magali RIBOT and Florent BERTHELIN
Modelling of multi-lane road traffic flow
- 2010 to 2011 **Referent for international exchange students**, *Université Côte d'Azur*
Support in administrative processes and cultural visits of the city of Nice and surrounding areas

Invitations:

- July 2019 **University of Waterloo, Canada**, (14 days)
Brian INGALLS
- October 2018 **Universidad de Granada, Spain**, (10 days)
José A. CAÑIZO & María J. CÁCERES
- April 2015 **Consiglio Nazionale delle Ricerche, Italy**, ()
Roberto NATALINI
- January 2015 **Consiglio Nazionale delle Ricerche, Italy**, ()
Roberto NATALINI

Academic training and diplomas:

- September 2016 **PhD in mathematics**, *Laboratory J.A. Dieudonné, University Côte d'Azur, Team PDE and numerical analysis & Team COFFEE of Inria Nice Sophia-Antipolis, France*
Dissertation title: *Modeling and numerical simulations for fluid mechanics systems with constraints; application to biology and road traffic*, co-advised by: Thierry GOUDON & Magali RIBOT. Composition of the jury:
– Stephane DESCOMBES, examiner, *Professor at University Côte d'Azur*,
– Thierry GOUDON, director, *Research director at INRIA*,
– Celine GRANDMONT, reviewer, *Research director at INRIA*,
– Florence HUBERT, examiner, *Professor at the University of Aix Marseille*,
– Thomas LEPOUTRE, examiner, *Research associate at INRIA*,
– Clair POIGNARD, reviewer, *Research associate at INRIA*,
– Magali RIBOT, director, *Professor at the University of Orléans*,
- 2012 to 2013 **Master degree in applied Mathematics**, *Université Côte d'Azur, Nice*
Specialty: Partial differential equations, control and numerical analysis
- July 2012 **Agrégation of Mathematics**
French highly competitive examination for being a high-school teacher and university lecturer, speciality: symbolic computation
- 2010 to 2012 **Master for Agrégation in Mathematics**, *Université Côte d'Azur*, rank 3/11, Nice
Training for the examination of Agrégation of Mathematics, speciality: symbolic computation.
- 2009 to 2010 **First year of Master degree in Mathematics**, *University of Montréal in Québec (Canada)*
- 2008 to 2009 **Degree in fundamental and applied Mathematics**, *Université Côte d'Azur*, rank 7/62, Nice
- 2006 to 2008 **Higher School Preparatory Classes**, *Lycée Masséna, Nice*
Fields of study: Mathematics, Physics and Chemistry (PCSI/PC)

Computer skills:

Program- ming :	Python, Matlab, Scilab, Maple	Office : $\text{\LaTeX}$, iWork, Suite Office
HPC :	C/C++, OpenMP, Cuda	Web : HTML (Notions)
Visualisation :	Paraview, Ensight	

Supervision:

PhD students

- Since September 2024 **Alice Gauthier**, *PhD candidate*, Analysis and numerical simulation of gas transmission networks and multiphase fluid systems, Co-advised with Ulrich Razafison
- Since October 2023 **Paguiel Javan Hossie**, *PhD candidate*, Modeling and numerical simulation of large-intestine motility using multiphase fluid mechanics equations, Co-advised with Magali Ribot & Cécile Carrère
- August 2022 **CEMRACS summer school project**, *Centre international de rencontres mathématiques - Marseille Luminy (6 semaines)*, Numerical schemes for mixture theory models with filling constraint: application to biofilm ecosystems, Co-advised with O. Bernard, T. Goudon, S. Minjeaud
- August 2018 **CEMRACS summer school project**, *Centre international de rencontres mathématiques - Marseille Luminy (6 semaines)*, A Multi-Scale Epidemic Model of Salmonella infection with Heterogeneous Shedding, Co-advised with M. Ribot, S. Labarthe, B. Laroche

Internships

- June 2026 to August 2026 **Third-year engineering school (INSA Rennes) internship of Alexis Andreff**, *Laboratoire de mathématiques de Besançon*, Université Marie & Louis Pasteur, Three-dimensional structure from motion of a deformable tubular scene
- February 2026 to July 2026 **Master 2 internship of Julien Horguedebat**, *Laboratoire de mathématiques de Besançon*, Université Marie & Louis Pasteur, constructive method for the Calderón inverse problem
Co-advised with Thierry Daudé
- May 2024 to August 2024 **Master 1 (optional internship) internship of Julien Horguedebat**, *Laboratoire de mathématiques de Besançon*, Inverse problem and integral equation resolution: the Nyström method
- February 2025 to July 2025 **Master 2 internship of Ulysse Dalmasso**, *Laboratoire de mathématiques de Besançon*, Université Marie & Louis Pasteur, Spatiotemporal modelling of the process of plant colonisation by seed and soil microbiota
Co-advised with Carlotta Donadello
- February 2024 to June 2024 **Master 2 internship of Samuel Blondeau**, *Laboratoire de mathématiques de Besançon*, Université de Franche-Comté, Numerical methods for second order traffic flow models
Co-advised with Carlotta Donadello
- June 2014 to November 2014 **Master 2 internship of Tathagata Goswami**, *Université Côte d'Azur*, Mathematical model and numerical simulations of fibres degradation by the intestinal microbiota
Co-advised with T. Goudon, M. Ribot
- 2021 to 2022 **Co-supervision of Emma Waechter and Mathilde Jehanno**, *CentraleSupélec*, 3rd-year "Projet de Mention" (ETD 120h), 2D simulation of an innovative device for microalgae biofilm production; modelling exchanges with bacteria

Responsibilities:

Pedagogical:

- Since 2021 **Tutored projects**, *Université de Franche-Comté*, ISIFC
Collection and allocation of projects, then organisation of the oral defences

Scientific:

- Since 2020 **Co-organiser of the ANCS team seminar**, *Université de Franche-Comté*, Laboratoire de mathématiques de Besançon

Administrative:

- Since 2022 **Elected member (college B) of the ISIFC management board**, *Université de Franche-Comté*
Quarterly meetings deciding the school's curriculum, staffing, budget and premises orientations.
- Since April 2022 **Secularism ('laïcité') referent at ISIFC**
- Since 2023 **Member of the LmB gender-equality committee**
Bimonthly meetings organising actions promoting gender equality for students and staff, e.g. funding student trips to the "Maths C pour L" outreach programme, and hosting the CLASCHEs association for awareness sessions on sexist and sexual violence.
- May 2024 **Member of the mathematics department's ATER recruitment committee (3 positions)**
- April 2022 **Member of the recruitment committee for a CNU-26 Assistant Professor position at LmB (Galaxie no. 4634)**

Teaching experiences:

- Since 2025 **Specialised course in numerical analysis (CTU, distance learning)**, *Université Marie et Louis Pasteur, Centre de Télé-enseignement Universitaire*, 36h
Research Master 2, specialised course
- Since 2025 **Numerical analysis – scientific computing (finite volumes half-unit)**, *Université Marie et Louis Pasteur*, M2 Mathématiques approfondies 36h ETD
Research Master 2, fundamental course (semester 1): 3 students per year
- Since 2025 **Mathematics reinforcement for biomedical engineering students**, *Université Marie et Louis Pasteur*, ISIFC 40h
ISIFC first year: 2 tutorial groups of 20h (15 students per group)
- Since 2019 **Mathematics for biomedical engineering (course coordinator)**, *Université de Franche-Comté*, ISIFC 81h
Bachelor (engineering school): Linear algebra, Real functions, Taylor series, ODE
- 2019 to 2020 **Resp. of the teaching unit: Analyse Numérique**, *Université de Franche-Comté, Centre de Télé-enseignement Universitaire*, 60h
Third year of Licence: Polynomial approximations, numerical resolution of systems, numerical approximation of ODEs, ...
- 2023 to 2024 **Lecturer, first-year Analysis (L1)**, *Université de Franche-Comté, UFR sciences et techniques*, 20h
Resolution of equations, study of functions, integration
- 2023 to 2024 **Resp. of the teaching unit: math refresher course**, *Université de Franche-Comté, UFR sciences et techniques*, 32h
Refresher course in mathematics for students with a major in biology
- 2019 to 2021 **Resp. of the teaching unit: Méthodes numériques**, *Université de Franche-Comté*, 48h
Bachelor (engineering school): Numerical integration, numerical resolution of systems, introduction to finite elements
- 2019 **Teaching Assistant**, *Université Claude Bernard, Lyon 1*, 10h
Bachelor (L2), Faculty of Sciences: Practical work with Python - Numerical analysis
- 2019 **Teaching Assistant**, *Université Claude Bernard, Lyon 1*, 30h
Bachelor (L2), Faculty of Sciences: Numerical analysis
- 2013 to 2016 **Teaching Assistant**, *Université Côte d'Azur*
Higher Institute of Economics and Management: Bachelor (L1) Economics and Management, Fundamental analysis and integration (2×60 hours); Bachelor (L2) Economics and Management, Suites and series (30 hours); Bachelor (L1) Sociology and Economics, Fundamental analysis and linear algebra (30 hours).
- 2015 **Teaching Assistant (oral examinations)**, *Université Côte d'Azur*, 12h
Faculty of Sciences: Mathematics-Electronics, oral examinations in fundamental analysis.
- 2009 **Math tutoring**, *Lycée Guillaume Apollinaire de Nice*, 30h

Foreign languages:

English : Fluent

Italian : Some basic knowledge

Research grants

- 2024 to 2025 **Modelling of the plant microbiota**
Funding for a six-month internship grant obtained from PIA4: HARMi
- 2021 **Modeling and scientific computing for ecosystems**
New research team welcome grant from the UFC: 25k€ over 3 years
- 2021 to 2024 **Mathematical models and tools for understanding microbial ecosystems**
Funding of 22k€ (16k€ running costs, 6k€ investment) from the Bourgogne Franche-Comté region

2020 Mathematics & Microbiota

Move your mathematics project for the SMAI youth: 1k€

2020 Modeling heterogeneous ecosystems in a variable environment

Chrysalis project for newcomers: 5k€ over 1 year

Publications:

Unlike some other disciplines, mathematics customarily lists authors in alphabetical order. The symbol  indicates that, following that tradition, the authors are listed alphabetically.

Published articles

- 2026 **Numerical simulations for the ARZ model for vehicular traffic with general point constraints on the density flux**, *Communications in Mathematical Sciences*, vol. 24, no. 7, pp. 1769–1793(DOI) (hal-05732647)
 C. Donadello, B. Polizzi, U. Razafison, J. Y. Rolland, M. D. Rosini
- 2024 **Numerical schemes for mixture theory models with filling constraint: application to biofilm ecosystems**, *ESAIM: Proceedings and Surveys*, vol. 77, pp. 249–266(DOI) (hal-04907848)
 O. Bernard, M. Bestard, T. Goudon, L. Meyer, S. Minjeaud, F. Noisette, B. Polizzi
- 2024 **(Epi)mutation rates and the evolution of composite trait architectures**, *The American Naturalist*, vol. 204, no. 3, pp. E42–E56(DOI)
B. Polizzi, V. Calvez, S. Charlat, E. Rajon
- 2023 **Migration of surface-associated microbial communities in spaceflight habitats**, *Biofilm*, vol. 5, art. 100109(DOI) (hal-04004802)
D. Marra, T. Karapantsios, S. Caserta, E. Secchi, M. Holynska, S. Labarthe, B. Polizzi, S. Ortega, M. Kostoglou, C. Lasseur, I. Karapanagiotis, S. Lecuyer, A. Bridier, M. F. Noirot-Gros, R. Briandet
- 2022 **Understanding photosynthetic biofilm productivity and structure through 2D simulation**, *PLOS Computational Biology*, vol. 18, no. 4, art. e1009904(DOI) (hal-03700020)
B. Polizzi, A. Fanesi, F. Lopes, M. Ribot, O. Bernard
- 2020 **A Multi-Scale Epidemic Model of Salmonella infection with Heterogeneous Shedding**, *ESAIM: Proceedings and Surveys*, vol. 67, pp. 261–284(DOI) (hal-02043742)
 S. Labarthe, B. Laroche, T. Nguyen, B. Polizzi, F. Patout, M. Ribot, T. Stegmaier
- 2018 **A mathematical model to investigate the key drivers of the biogeography of the colon microbiota**, *Journal of Theoretical Biology*, vol. 462, pp. 552–581(DOI) (hal-01761191)
S. Labarthe, B. Polizzi, T. Phan, T. Goudon, M. Ribot, B. Laroche
- 2018 **A two-dimensional population balance model for cell growth including multiple uptake systems**, *Chemical Engineering Research and Design*, vol. 132, pp. 966–981(DOI)
V. Quedeville, H. Ouazaite, B. Polizzi, R. O. Fox, P. Villedieu, P. Fede, F. Létisse, J. Morchain
- 2017 **A time-space model for the growth of microalgae biofilms for biofuel production**, *Journal of Theoretical Biology*, vol. 432, pp. 55–79(DOI) (hal-01408045)
B. Polizzi, O. Bernard, M. Ribot
- 2017 **Asymptotic problems and numerical schemes for traffic flows with unilateral constraints describing the formation of jams**, *Networks and Heterogeneous Media*, vol. 12, no. 4, pp. 591–617(DOI) (hal-01413613) (arXiv:1612.03737)
 F. Berthelin, T. Goudon, B. Polizzi, M. Ribot
- 2016 **A mixture model for the dynamic of the gut mucus layer**, *ESAIM: Proceedings and Surveys*, vol. 55, pp. 111–130(DOI) (hal-01421708)
 T. El Bouti, T. Goudon, S. Labarthe, B. Laroche, B. Polizzi, A. Rachah, M. Ribot, R. Tesson

Article under review

Articles in preparation

Analysis and numerical simulations for multilane second order traffic flow model,

C. Donadello, S. F. Pellegrino, B. Polizzi

Thematic research stays:

August 2018 **CEMRACS: Numerical and mathematical modeling for biological and medical applications**, *CIRM à Marseille*, 4 weeks

Project: *A Multi-Scale Epidemic Model of Salmonella infection with Heterogeneous Shedding.*

August 2015 **CEMRACS: Coupling Multi-Physics Models involving Fluids**, *CIRM à Marseille*, 5 weeks

Project: *A mixture model for the dynamic of mucosal barrier.*

Teaching leave for research:

2024 to 2025 **Équipe projet INRIA Biocore**, *One semester spread over the year*

2022 to 2023 **Équipe projet INRIA Biocore**, *Fall semester 2022*

Organization of scientific events:

March 2025 **Spring School on Conservation Laws and Applications**, *LmB*, co-organized with Nathaël Alibaud, Carlotta Donadello, Ulrich Razafison

April 2024 **IEA CONPANHIE: Control problems for applied nonlinear hyperbolic equations, kick off meeting**, *Besançon*, co-organized with Carlotta Donadello

The workshop aimed to present recent advances and identify new collaboration avenues towards larger-scale project proposals.

October 2022 **Journées du GDR mathSAV**, *Besançon*

GDR mathSAV is a national research network aiming to build a lasting, inclusive community around mathematical modelling for health and life sciences. This meeting gathered 73 participants, including 18 talk speakers and 3 mini-course speakers.

September 2021 **Mathematics and microbiota colloquium**, *Centre diocésain de Besançon*, co-organized with Cécile Carrère

Interdisciplinary seminar on intestinal microbiota modelling. As main organiser, I brought together the mathematical community working on gut microbiota modelling, gathering the main national actors over two days for a series of 10 talks.

Talks and conferences:

Selected presentations:

May 2025 **Séminaire du Laboratoire de Mathématiques Appliquées de Compiègne**, *France*
(Epi)mutation rates and the evolution of composite trait architectures

November 2023 **Groupe de Travail BioMaths Normand**, *LMRS, Rouen*
(Epi)mutation rates and the evolution of composite trait architectures

April 2023 **Roscoff interdisciplinary meeting**
Optimizing the productivity of a phototrophic biofilm

January 2022 **Journées EDP de l'IECL**, *Nancy*
Mathematical models for complex ecosystems

January 2022 **Math-Bio Working Group**, *Online*
(Epi)mutation rates and the evolution of composite trait architectures

- September 2021 **Team seminary of Inria's research team Biocore**, *Peyresq*
Evolution of the (non-)genetic architecture of traits and evolutionary consequences
- September 2020 **Convergent aquatic photosynthesis modelling for our planet**, *Fondation des Treilles, Tourtour, France*
Impact of harvesting pattern on photosynthetic microalgae biofilms productivity
- November 2019 **Soil sciences colloquium of the University of Hohenheim**, *Germany*
Mixture models for phototrophic biofilms and gut microbiota ecology
- October 2019 **Federation Bourgogne Franche-Comté mathematics day**
Modeling and numerical methods for continuous media
- July 2019 **Mathematical Models in Ecology and Evolution (MMEE)**, *Lyon*
Mathematical analysis for a multi-scale evolution model in periodic environment
- March 2019 **Journées des 50 ans du LJLL**, *Roscoff*
Mixture models for phototrophic biofilms and gut microbiota ecology
- February 2019 **Séminaire d'Analyse Numérique et Calcul Scientifique**, *Laboratoire de Mathématiques, Université de Franche-Comté*
Mixture models for phototrophic biofilms and gut microbiota ecology
- February 2019 **Séminaire "Modélisation, Analyse et Simulation" du MAP5**, *Université Paris Descartes*
Mixture models for phototrophic biofilms and gut microbiota ecology
- December 2018 **Fluids and Complexity conference**, *Université Côte d'Azur, Nice*
Effect of the growing conditions on the productivity of micro-algae phototrophic biofilm
- November 2018 **Forum des Jeunes Mathématicien.ne.s**, *Orléans*
Mixture models for gut microbiota ecology
- October 2018 **Universidad de Granada, Departamento de Matemática Aplicada**
Mixture models for phototrophic biofilms and gut microbiota ecology
- October 2018 **Team days seminary: Mathematical Modelling and Scientific Computing**, *Institut Camille Jordan, INSA Lyon*
Mathematical model coupling rheology and microbiota population dynamic for the gut
- August 2018 **CEMRACS 2018: Numerical and mathematical modeling for biological and medical applications**, *Centre international de rencontres mathématiques, Marseille Luminy*
Effect of the harvest on the productivity of microalgae phototrophic biofilm
- May 2018 **Workshop on Mathematics for Complex Microbial Systems**, *Fields Institute, Toronto, Canada*
Mixture theory models for microalgae phototropic biofilm
- February 2018 **Mathematical Biology Seminar**, *Fields Institute, Toronto, Canada*
Mixture theory models for phototropic biofilm and gut rheology
- January 2018 **Séminaire de l'équipe du professeur Brian INGALLS**, *University of Waterloo, Canada*
Mixture theory models for phototropic biofilm and gut rheology
- December 2017 **Seminary of applied Mathematics**, *Université de Nantes, France*
Modeling and numerical simulation for fluid mechanics systems with constraints: application to road traffic and biology.
- November 2017 **Seminary of the INRIA Project Lab "Algae in silico"**, *Paris, France*
Numerical estimation of the harvest effect on the productivity of a microalgae biofilm
- February 2017 **Work group: Mathematics for biology**, *Toulouse Mathematical Institute*
Mixture models for microalgae biofilms and rheology of the large intestine

- January 2017 **Team seminary: Particules, Sprays et combustions**, *Institut de Mécanique des Fluides de Toulouse*
Simulations for biology and road traffic
- June 2016 **Journées d'Analyse Appliquée Nice-Toulon-Marseille**
Mathematical models of mixtures theory, application to phototrophic micro-algae biofilms and intestinal mucus
- April 2016 **Theses day of the team PDE-NA**, *Laboratoire J.A. Dieudonné, Université de Nice Sophia-Antipolis*
Mathematical models of mixtures theory, application to phototrophic micro-algae biofilms and intestinal mucus
- August 2015 **CEMRACS**, *CIRM Marseille*
A mixture model of the mucosal barrier dynamic
- June 2015 **PhD annual seminary of EDSFA 2015**, *Université de Nice Sophia-Antipolis*
Mathematical model for micro-algae biofilms
- 2015 **Invited for the annual team seminary of Biocore**
Model for the growth of micro-algae biofilms and numerical results
- 2014 **Invited for the annual team seminary of Biocore**
A time-space model for the growth of micro-algae biofilms
- 2014 **Annual team seminary of COFFEE**
Numerical simulations for the constrained Aw-Rascle model
- 2015 **PhD seminar of the PDE and Numerical Analysis team**
Model for the growth of micro-algae biofilms and numerical results
- 2015 **PhD seminar of the PDE and Numerical Analysis team**
Mathematical model for micro-algae biofilms
- 2014 **PhD seminar of the PDE and Numerical Analysis team**
Numerical simulations for the modified constrained Aw-Rascle model
- Poster:**
- February 2020 **Mathematical Models in Ecology and Evolution (MMEE)**, *CIRM*
The evolution of composite mutation rates
- November 2018 **Balance laws in fluid mechanics, geophysics, biology (theory, computation, and application)**, *Orléans*
A time-space model for the growth of microalgae biofilms for biofuel production
- June 2018 **Conference on Multiscale Problems in Materials and Biology — A conference in honor of Leonid Berlyand's 60th birthday**, *The Fields Institute, Toronto*
A time-space model for the growth of microalgae biofilms for biofuel production
- Selected conferences (as auditor):**
- March 2025 **Spring Conference: "From Data to Models"**, *INRIA Sophia-Antipolis*
- October 2020 **Transport in the digestive tract: experiments, modeling, applications to microbiology**, *Online*
- June 2018 **Conference on Multiscale Problems in Materials and Biology**, *The Fields Institute for Research in Mathematical Sciences, Toronto*
- January 2018 **CMM-Fields-Inria Workshop on Mathematics for Medicine**, *The Fields Institute for Research in Mathematical Sciences, Toronto*
- 2017 **Mathématiques Appliquées à la MODélisation du VIVant (MAMОВI)**, *Lyon*
- 2015 **Journées Jeunes EDPistes Français**, *Saint-Brevin-les-Pins*

- 2014 **Models for bacterial biofilms formation: mathematical, physical and biological perspectives**, *Nice*
- 2013 **Asymptotic behaviour of systems of PDE arising in physics and biology: theoretical and numerical points of view**, *European center for Mathematics, physics and their interactions (CEMPI, Lille)*

Outreach

- Since 2025 **Coordinator of the ISIFC seminar: "The research world of your teachers"**, Creation and organisation of the seminar since 2025
- February 2025 **"Sortie d'amphi" public talk: Music & Mathematics**, Radio Campus, February 11th, 2025
- 2025 to 2026 **ÉloquenSciences: scientific eloquence competition organised by the association Les Maths En Scène**, Scientific mentor for 21 high-school seniors (terminale)

Other diplomas and professional experiences:

- 2010 to 2011 **Federal sailing instructor**, *Municipal club of Cagnes-sur-mer*
Training of children from 7 to 10 years old on Optimist boat for competitions
- 2011 **Federal sailing instructor**, *Municipal club of Cagnes-sur-mer*
Beginners and advanced training during the summer for children and teenagers on Optimist and Hobbie-cat 14 or 16
- July 2006 **Federal degree sailing instructor**, *Municipal club of Cagnes-sur-mer*

Hobbies and interests:

- Sail Hobbie-cat 16 crewed and windsurfing
- Mountain Hiking, skiing, surfing and climbing
- Travels Canada (Quebec and East Coast, Rockies); road trip in the western United States; London; Italy (Rome, Venice, Tuscany)
- Social dances Tango, Blues, Lindy Hop
- Photography Landscapes, portraits, wildlife
- License Driving and boat license