

Laboratoire de mathématiques AGM
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Employment

- 2023 – ... **Professor at CY Cergy Paris Université.**
 Département de Mathématiques, Cergy-Pontoise, France.
- 2022 – ... **Part-time Professor at École polytechnique.**
 Département de Mathématiques, Palaiseau, France.
- 2020 – 2023 **Researcher at CNRS (CR).**
 Laboratoire de mathématiques AGM, CY Cergy Paris Université.
- 2015 – 2020 **Researcher at CNRS (CR).**
 Institut de Mathématiques de Bordeaux, Université de Bordeaux.
- 2013 – 2015 **L.E. Dickson Instructor.**
 Department of Mathematics, The University of Chicago. *Contact:* Carlos Kenig.
- 2010 – 2013 **Graduate Student Instructor.**
 Diderot University Paris 7 and Institut de Mathématiques de Jussieu.

Education

- 2022 **Habilitation à Diriger des Recherches.** CY Cergy Paris Université.
 Thesis defended on October 4, 2022.
Referees/jury members: Patrick Gérard, Zhongwei Shen et Vladimír Šverák.
Other jury members: Isabelle Gallagher, Thierry Gallay, David Gérard-Varet,
 Emmanuel Hebey, Pierre-Gilles Lemarié-Rieusset.
- 2010 – 2013 **Ph.D. in Mathematics**, summa cum laude. Diderot University Paris 7.
 Thesis defended on June 5, 2013.
Supervisor: David Gérard-Varet. *Referees:* Carlos Kenig and Claude Le Bris.
- 2006 – 2010 Student at **École Normale Supérieure of Rennes.**
- 2010 **M.Sc. in Mathematics**, summa cum laude.
 Pierre and Marie Curie University Paris 6.
 Numerical Analysis and Partial Differential Equations.
- 2009 **Agrégation in Mathematics.**
 Highest competitive French state exam for the recruitment of college teachers.
- 2008 First year Master studies in Mathematics and Physics, summa cum laude.
 ENS of Rennes and Rennes 1 University.
- 2007 **B.Sc. in Mathematics**, summa cum laude. ENS of Rennes.
B.Sc. in Physics, cum laude. Rennes 1 University.

Grants (PI)

- 2022 – 2024 EMERGENCE grant of ‘CY Initiative’ acronym CYFI (CYngular fluids and interfaces); co-PI Charles Collot; Awarded Amount: 45 000 euros.
- 2022 – 2023 Postdoctoral fellowship of Pedro Fernandez-Dalgo funded by the LABEX MME-DII; Awarded Amount 51 000 euros.
- 2022 – 2023 Postdoctoral fellowship of Jin Tan funded by the LABEX MME-DII; Awarded Amount 51 000 euros.

2017 – 2022	PI ANR-16-CE40-0027-01 BORDS (Boundaries, Oscillations, layeRs in Differential Systems) funded by the ANR; Awarded Amount: 124 200 euros.
2016 – 2019	PI “Junior Chair” BOLIDE from the IDEX University of Bordeaux; Awarded Amount: 108 000 euros.
2016	PI PEPS “Young Researcher” of the CNRS; Awarded Amount: 3 000 euros.
2015 – 2018	PI NSF Grant DMS 1500893: Asymptotic Analysis of Partial Differential Equations and Systems with Emphasis on Boundary Layers; Awarded Amount: 130 000 dollars.

Other grants

2023 – 2026	Member of the collaborative project BOURGEONS funded by the ANR; PI Anne-Laure Dalibard.
2021 – 2025	Member of the collaborative project CYNA funded by the ‘CY Initiative d’Excellence’; PI Philippe Gravejat.
2021 – 2024	Member of the collaborative project CRISIS funded by the ANR; PI Francesco Fanelli.
2018 – 2022	Member of the collaborative project SingFlows funded by the ANR; PI David Gérard-Varet.

Memberships

2023 – ...	Member of the research group ‘GDR Defis theoriques pour les sciences du climat’, France.
2023 – ...	Member of the research group ‘GDR Navier-Stokes 2.00’, France.
2021 – ...	Member of the GAMM Activity Group Analysis of PDEs ‘Gesellschaft für angewandte Mathematik und Mechanik’, Germany.

Publications and preprints

- W. Jing, Y. Lu and C. Prange. Unified quantitative analysis of the Stokes equations in dilute perforated domains via layer potentials. To appear in *Multiscale Modeling and Simulation* (2025).
- C. Prange and J. Tan. Free boundary regularity of vacuum states for incompressible viscous flows in unbounded domains. Submitted (2023).
- T. Barker, P. Fernández-Dalgo and C. Prange. Blow-up of dynamically restricted critical norms near a potential Navier-Stokes singularity. *Mathematische Annalen*, 389, 1517-1543, (2024).
- T. Barker, C. Prange and J. Tan. On symmetry breaking for the Navier-Stokes equations. *Comm. Math. Phys.* 405(25), (2024).
- D. Albritton, T. Barker and C. Prange. Epsilon regularity for the Navier-Stokes equations via weak-strong uniqueness. *Journal of Mathematical Fluid Mechanics* 25(49) (2023); special issue in the memory of Olga Ladyzhenskaya.
- T. Barker and C. Prange. From concentration to quantitative regularity: a short survey of recent developments for the Navier-Stokes equations. *Vietnam Journal of Mathematics* (2023); special issue dedicated to Carlos Kenig’s 70th birthday.
- D. Albritton, T. Barker and C. Prange. Localized smoothing and concentration for the Navier-Stokes equations in the half space. *Journal of Functional Analysis*, 284(1) (2023).
- M. Higaki, J. Zhuge and C. Prange. Large-scale regularity for the stationary Navier-Stokes equations over non-Lipschitz boundaries. *Analysis & PDE*, 17(1), 171-242 (2024).
- R. Höfer, F. Sueur and C. Prange. Motion of several slender rigid filaments in a Stokes flow. *Journal de l’École polytechnique – Mathématiques*, Tome 9, 327-380 (2022).

- T. Barker and C. Prange. Mild criticality breaking for the Navier-Stokes equations. *J. Math. Fluid Mech.*, 23, 66 (2021).
- E. Bocchi, F. Fanelli and C. Prange. Anisotropy and stratification effects in the dynamics of fast rotating compressible fluids. *Annales de l'Institut Henri Poincaré C, Analyse Non Linéaire*, 39(3), 647-704 (2022).
- T. Barker and C. Prange. Quantitative regularity for the Navier-Stokes equations via spatial concentration. *Comm. Math. Phys.* 385(2), 717-792 (2021).
- M. Higaki and C. Prange. Regularity for the stationary Navier-Stokes equations over bumpy boundaries and a local wall law. *Calc. Var. Partial Differential Equations*, 59, 131 (2020).
- T. Barker and C. Prange. Scale-invariant estimates and vorticity alignment for Navier-Stokes in the half-space with no-slip boundary conditions. *Arch. Ration. Mech. Anal.*, 235(2), 881-926 (2020).
- T. Barker and C. Prange. Localized smoothing for the Navier-Stokes equations and concentration of critical norms near singularities. *Arch. Ration. Mech. Anal.*, 236, 1487-1541 (2020).
- Y. Maekawa, H. Miura and C. Prange. On stability of blow-up solutions of the Burgers vortex type for the Navier-Stokes equations with a linear strain. *J. Math. Fluid Mech.*, 21(4), 46 (2019).
- Y. Maekawa, H. Miura and C. Prange. Local energy weak solutions for the Navier-Stokes equations in the half-space. *Comm. Math. Phys.*, 367(2), 517-580 (2019).
- Y. Maekawa, H. Miura and C. Prange. Estimates for the Navier-Stokes equations in the half-space for non localized data. *Analysis & PDE*, 13(4), 945-1010 (2020).
- C. Kenig and C. Prange. Improved regularity in bumpy Lipschitz domains. *J. Math. Pures Appl.*, 113, 1-36 (2018).
- S. Armstrong, T. Kuusi, J.-C. Mourrat and C. Prange. Quantitative analysis of boundary layer correctors in periodic homogenization. *Arch. Ration. Mech. Anal.*, 226(2), 695-741 (2017).
- C. Kenig and C. Prange. Uniform Lipschitz estimates in bumpy half-spaces. *Arch. Ration. Mech. Anal.*, 216(3), 703-765 (2015).
- D. Bresch and C. Prange. Newtonian limit for weakly viscoelastic fluid flows. *SIAM J. Math. Anal.*, 46(2), 1116-1159 (2014).
- A.-L. Dalibard and C. Prange. Well-posedness of the Stokes-Coriolis system in a half-space over a rough surface. *Analysis & PDE*, 7-6, 1253-1315 (2014).
- C. Prange. Asymptotic analysis of boundary layer correctors in periodic homogenization. *SIAM J. Math. Anal.*, 45(1), 345-387 (2013).
- C. Prange. First-order expansion for the Dirichlet eigenvalues of an elliptic system with oscillating coefficients. *Asymptot. Anal.*, 83(3), 207-235 (2013).

Proceedings

- C. Prange. Large-scale regularity for fluids over rough boundaries. *Oberwolfach Reports*, (2021) 10.14760/OWR-2021-14.
- C. Prange. Infinite energy solutions to the Navier-Stokes equations in the half-space and applications. *Séminaire Laurent Schwartz-EDP et applications*, Exp. No. 2, 18 p., 2017–2018.
- C. Prange. Uniform estimates in homogenization: compactness methods and applications. *Journées Équations aux Dérivées Partielles*, Exp. No. 7, 25 p., 2014.

Supervision

- 2021 – 2025 Moustapha Agne, first **master 2 student**, then **Ph.D. student**, CY Cergy Paris University. He is the sole author of the following preprint ‘Asymptotic Analysis of Boundary Layers for Stokes Systems in Periodic Homogenization’ <https://arxiv.org/abs/2407.11841> .

- 2021 – 2024 Jin Tan, **postdoctoral researcher**, CY Cergy Paris University. I was his postdoc mentor. From September 1st, 2024, he is research assistant professor at The Chinese University of Hong-Kong, Hong-Kong.
- 2021 – 2023 Pedro Fernández-Dalgo, **postdoctoral researcher**, CY Cergy Paris University. I was his co-mentor with Tobias Barker. From October 1st, 2024, he is a postdoctoral fellow at the Basque Center for Applied Mathematics, Spain.
- 2020 Richard Höfer, **postdoctoral researcher**, Institut de Mathématiques de Bordeaux, France. I was his co-mentor with Franck Sueur. From January 1st, 2023, he is associate professor at the University of Regensburg, Germany.
- 2019 Mitsuo Higaki, **postdoctoral researcher**, Institut de Mathématiques de Bordeaux, France. I was his postdoc mentor. From October 1st, 2019, he is associate professor at Kobe University, Japan.
- 2016 – 2019 Edoardo Bocchi, **Ph.D. student**, Institut de Mathématiques de Bordeaux, France. He graduated from the University of Bordeaux on September 23, 2019. I co-supervised his Ph.D. studies with David Lannes. From September 1st, 2023, he is a Marie Skłodowska-Curie postdoctoral researcher in the group of Filippo Gazzola at Politecnico of Milan, Italy.

Conference talks

- 2024
- ▷ CIRM, Luminy, France. Mathematics of fluids in motion: Recent results and trends.
 - ▷ Sevilla, Spain. ECM2024, mini-symposium ‘Current developments in mathematical fluid dynamics’.
- 2023
- ▷ Münster, Germany. Stability, mixing and fluid dynamics.
 - ▷ Lyon, France. Aspects locaux et non-locaux en mécanique des fluides.
- 2022
- ▷ CIRM, Luminy, France. Mathflows 2022.
 - ▷ ICMAT, Madrid, Spain. Recent trends in fluid mechanics.
 - ▷ Lyon, France. Summer School on Fluid and Turbulence.
 - ▷ New York University, Abu Dhabi. SITE conference, ‘Long Time Behavior and Singularity Formation in PDEs - Part V’ (online).
 - ▷ Euler International Mathematical Institute, St.-Petersburg, Russia. ‘Mathematical Hydrodynamics: the Legacy of Olga Ladyzhenskaya and Modern Perspectives’ in honor of the 100th anniversary of Olga Ladyzhenskaya (postponed).
 - ▷ Kyoto University, Japan. KTGU Mathematics Workshop for Young Researchers (online).
- 2021
- ▷ Universidad de Cantabria, Spain. TURB1D 2021 (online participation).
 - ▷ University of Freiburg, Germany. 9th GAMM-Seminar on Analysis of PDEs.
 - ▷ University Paris-Saclay. Workshop ‘Analyse Harmonique et EDP’.
 - ▷ Oberwolfach workshop (online). Homogenization Theory: Periodic and Beyond.
- 2020
- ▷ SIAM TXLA annual meeting (online). Topics in qualitative and quantitative properties of partial differential equations.
 - ▷ Madrid, Spain. Workshop on PDEs. May 2020. *Cancelled due to the Covid-19 pandemic.*

- ▷ Kyoto University, Japan. Kyoto Top Global University workshop. *Participation cancelled due to the Covid-19 pandemic.*
- 2019 ▷ Lyon, France. Franco-Brazilian meeting in mathematical fluid mechanics.
- ▷ Cardiff, UK. Small Scales and Homogenisation.
- 2018 ▷ Evry, France. Kolmogorov Days.
- ▷ Porquerolles, France. Mathflows 2018.
- ▷ Durham, UK. Homogenisation in Disordered Media.
- 2017 ▷ Erlangen, Germany. SIAM Conference on Mathematical and Computational Issues in the Geosciences.
- ▷ Saint-Etienne de Tinée, France. Dynamics and PDEs.
- 2016 ▷ University of Bordeaux, France. Second French-Korean Conference in Mathematics.
- 2015 ▷ RIMS, Kyoto University, Japan. Asymptotic Problems for Differential Equations and Viscosity Solutions.
- ▷ Banff International Research Station, Banff, Canada. Developments in the theory of Homogenization.
- 2014 ▷ Mittag-Leffler Institute, Stockholm, Sweden. Homogenization and Random Phenomenon.
- ▷ Journées EDP, Roscoff, France.
- 2013 ▷ AMS Fall Southeastern Sectional Meeting, University of Louisville, USA.

Seminar talks

- 2023 ▷ The Hong Kong Polytechnic University. Analysis seminar (online); *2 talks.*
- ▷ Hong Kong University of Science and Technology and Beijing Normal University, China. Joint PDE seminar (online).
- ▷ University of Evry, France. Analysis seminar.
- ▷ IHÉS, France. X-IHÉS seminar.
- 2022 ▷ University of Kentucky, US. Analysis and PDE seminar (online).
- 2021 ▷ Princeton University, US. Fluids seminar (online).
- 2020 ▷ University of Bath, UK. Asymptotics, Operators, and Functionals (online); *2 talks.*
- ▷ University of Bordeaux, France. PDE Seminar.
- ▷ Département de Mathématiques d'Orsay, France. Séminaire Analyse et EDP (online).
- ▷ Fields Institute, Toronto, Canada. Hydrodynamics Seminar (online).
- ▷ UAM-UC-ICMAT-IMUS Analysis and PDEs Seminar, Spain (online).
- ▷ IMUS, Seville, Spain. Fluid Talks.
- 2019 ▷ LAGA, Université Paris 13, France. Nonlinear PDE Seminar.
- 2018 ▷ Max Planck Institute MIS, Leipzig, Germany. Uni-MPI Oberseminar.
- ▷ University of Oxford, UK. PDE lunchtime seminar.
- 2017 ▷ Tokyo Institute of Technology, Japan. PDE Seminar. December 2017.
- ▷ University of Toulouse, France. MIP Seminar.
- ▷ IHÉS, Paris, France. X-EDP Seminar.
- ▷ ULB, Brussels, Belgium. Nonlinear Analysis and PDE Seminar.
- ▷ Collège de France, Paris, France. PDE Seminar.
- 2016 ▷ Aalto University, Finland. Analysis and Geometry Seminar.
- ▷ University of Nice Sophia Antipolis, France. SingWave Analysis Seminar.
- ▷ The University of Chicago, USA. Calderón-Zygmund Analysis Seminar.

- ▷ Tokyo Institute of Technology, Japan. PDE Seminar.
 - ▷ University of Paris Est, France. PDE Seminar.
 - ▷ University of Cergy-Pontoise, France. Geometry and PDE Seminar.
- 2015
 - ▷ University of Hiroshima, Japan. Applied Mathematics Seminar.
 - ▷ University of Lyon, France. Applied Mathematics Seminar.
 - ▷ University of Bordeaux, France. PDE Seminar.
 - ▷ Institut de Mathématiques de Bordeaux, France. Department Day.
 - ▷ Nečas Center for Mathematical Modeling, Prague, Czech Republic.
 - ▷ University of Illinois, Chicago, USA. March 2015.
 - ▷ The University of Chicago, USA. Calderón-Zygmund Analysis Seminar.
- 2014
 - ▷ University of Cambridge, UK. GAPDE Seminar.
 - ▷ University of Kentucky, USA.
- 2013
 - ▷ The University of Chicago, USA. CAMP/PDE Seminar.
 - ▷ École Normale Supérieure, Rennes, France. Analysis and PDE Seminar.
 - ▷ Institut Henri Poincaré, Paris, France. Analysis and PDE Seminar.
- 2012
 - ▷ LAMA, University of Savoy, Chambéry, France. Analysis Seminar.

Invited Lectures

- ▷ **Doctoral course** (6 hours) at Indian Institute of Technology Bombay. February 2025.
‘Quantitative methods in homogenization: regularity, concentration and renormalization’
- ▷ **Doctoral course** (4 hours) at Kyoto University (Kyoto Top Global University Special Lectures), Japan. December 2017.
‘Blow-up, compactness and (partial) regularity in Partial Differential Equations’

Organization of scientific events

- 2020 – ...
 - ▷ Co-organizer of the Analysis Seminar of the AGM laboratory at CY Cergy Paris University.
- 2020 – 2025
 - ▷ Co-organizer of the Colloquium of the AGM laboratory at CY Cergy Paris University.
- 2025
 - ▷ Co-organizer of the conference ‘CY Days in Nonlinear Analysis’ at CY Cergy Paris University.
- 2024
 - ▷ Co-organizer with Charles Collot of the summer school ‘Summer school: (in)-stability phenomena in fluid mechanics’. CY Advanced Studies.
- 2023
 - ▷ Co-organizer of the thematic day ‘Kinetic equations in Cergy’ at CY Cergy Paris University.
- 2022
 - ▷ Co-organizer of the inaugural conference of the CYNA project at CY Cergy Paris University.
- 2021
 - ▷ Co-organizer of the thematic day ‘Boundary layers in Cergy’ at CY Cergy Paris University.
- 2020
 - ▷ Co-organizer with Hao Jia of a three-days workshop at the University of Cergy-Pontoise “Workshop on nonlinear fluid and dispersive PDEs”. *This event is cancelled due to the Covid-19 pandemic.*
- 2018 – 2020
 - ▷ Organizer of the Colloquium of the AGM laboratory at the University of Cergy-Pontoise.
- 2017
 - ▷ Co-organizer of the conference in honor of Jean-Claude Saut’s 70th birthday at the University of Bordeaux.
- 2016 – 2018
 - ▷ Organizer of a seminar at the University of Bordeaux in an original format: one hour and a half mini-course in the morning and one hour standard seminar in the afternoon by the same speaker. I organized 7 sessions.

- 2015 ▷ Organizer of a panel discussion between students of the French École des Ponts (ENPC) and postdocs at The University of Chicago.
- 2013 ▷ Participation in the organization of the scientific and innovation contest “C.Génial 2013” in Paris.

Professional service

- 2024 – ... ▷ Deputy director of the AGM research center, CNRS and CY Cergy Paris University.
- ▷ Head of the new Master’s program in Mathematics for AI, Machine Learning and Scientific Computing (MACIA: Mathématiques pour l’Apprentissage, le Calcul et l’Intelligence Artificielle), CY Cergy Paris University.
- ▷ Tutor of two trainees of the engineering school CY Tech (Thales and Safran).
- ▷ Member of the hiring committee for temporary teaching and research professors (ATER) at CY Cergy Paris University.
- 2023 – ... ▷ Teaching coordinator and head of the first year, Master’s program in mathematics, CY Cergy Paris University.
- ▷ Member of AGM’s laboratory council.
- ▷ Member of the scientific council and local point of COFUND MathPhdInFrance.
- 2022 – ... ▷ Local contact point at the AGM laboratory for environmental issues.
- 2025 ▷ Head of a hiring committee for a professor (PR) at CY Cergy Paris University.
- ▷ Member of a hiring committee for an assistant professor (MCF) at Paris-Saclay University.
- 2024 ▷ Referee and jury member for the Ph.D. thesis of David Llerena at the University of Paris-Saclay.
- 2023 ▷ Jury member for the Ph.D. thesis of Elena Salguero at ICMAT & IMUS, Spain.
- ▷ Member of a hiring committee for an assistant professor (MCF) at ENS Lyon.
- ▷ Referee and jury member for the Ph.D. thesis of Nacer Aarach at Université de Bordeaux.
- 2022 ▷ Committee member for the Ph.D. thesis of Rémi Goudey at École des Ponts Paris Tech.
- ▷ Member of the research group ‘GDR Labos 1point5’ <https://labos1point5.org> on environmental issues in academia and public research. The main objective is to bring our community to meeting the objectives of the Paris Agreement.
- 2021 ▷ Committee member for the Ph.D. thesis of Pedro Fernández-Dalgo at the University of Paris-Saclay.
- 2019 ▷ Committee member for the Ph.D. thesis of Marco Bravin at the University of Bordeaux.
- 2018 ▷ Member of the board of examiners for the entrance exams to the École Normale Supérieure (Lyon, Paris-Saclay, Rennes, Ulm).
- 2014 – ... ▷ Referee for peer-reviewed journals among which *Inventiones Math.*, *Ann. Sci. ENS*, *ARMA*, *CMP*, *CPAM*, *JEMS*, *JMPA*.

Teaching at CY Cergy Paris University and CY Tech

- 2024 – 2025 **Statistics** (54 hours).
Master 1 course. *Lectures and tutorials.*
- Topology and functional analysis** (54 hours).
Master 1 course. *Lectures and tutorials.*

2023 – 2024	<p>Graduate course (9 hours). Refresher course in mathematical analysis and probability. <i>Lectures</i>. Statistics (54 hours). Master 1 course. <i>Lectures and tutorials</i>. Advanced differential calculus and differential geometry (36 hours). Master 1 course. <i>Lectures</i>. Linear optimization (9 hours). First-year engineering course (third-year undergraduate studies). <i>Lectures</i>. Probability (16 hours). First-year undergraduate studies. <i>Lectures and tutorials</i>. Graduate course (9 hours). Refresher course in mathematical analysis and probability. <i>Lectures</i>.</p>
2022 – 2023	<p>Graduate course on PDEs (30 hours). ‘Regularity for Partial Differential Equations: elliptic equations, homogenization and fluid mechanics’. Graduate course (9 hours). Preparation for the competitive examination ‘Agrégation’. Graduate course (10 hours). Refresher course in mathematical analysis.</p>
2021 – 2022	<p>Graduate course on PDEs (30 hours).</p>
2020 – 2021	<p>Graduate course on PDEs (30 hours; online). Master 1 course (18 hours; online). Reading group based on “Differential Equations, Dynamical Systems, and an Introduction to Chaos” by Hirsch, Smale and Devaney and “Les Matrices” by Serre.</p>
2019 – 2020	<p>Graduate course on PDEs (20 hours).</p>
2018 – 2019	<p>Graduate course on PDEs (30 hours).</p>
2017 – 2018	<p>Graduate course on PDEs (30 hours).</p>

Teaching at École polytechnique

2024 – 2025	<p>Functional Analysis (MAT 452) at École polytechnique (40 hours). Second-year course (first-year of graduate studies). <i>Tutorials</i>.</p>
2023 – 2024	<p>Introduction to Real Analysis (MAT 361) at École polytechnique (36 hours). First-year course (third-year undergraduate studies). <i>Tutorials</i>. Functional Analysis (MAT 452) at École polytechnique (40 hours). Second-year course (first-year of graduate studies). <i>Tutorials</i>.</p>
2022 – 2023	<p>Introduction to Real Analysis (MAT 361) at École polytechnique (36 hours). Functional Analysis (MAT 452) at École polytechnique (20 hours).</p>

Previous teaching

2016	<p>Graduate course at the University of Bordeaux (12 hours). ‘Weak and strong convergence methods for Partial Differential Equations’.</p>
2013 – 2015	<p>Instructor (200 hours). The University of Chicago.</p>
Summer 2015	<p>Introduction to PDEs. 4.5 hours course in the REU (Research Experience for Undergraduates) of The University of Chicago.</p>
Winter 2015	<p>Math 273, Basic Theory of Ordinary Differential Equations.</p>
Fall 2014	<p>Math 200, Mathematical Methods for Physical Science 1. Math 204, Analysis 2: differential calculus in \mathbb{R}^n.</p>

Winter 2014	Math 205, Mathematical Methods for Physical Science 2. Math 201, Analysis 3: multiple integrals and theorems of Green, Gauss, Stokes.
Fall 2013	Math 200, Mathematical Methods for Physical Science 1. Math 204, Analysis 2: differential calculus in \mathbb{R}^n .
2010 – 2013	Teaching Assistant at undergraduate level. Diderot University Paris 7.
Spring 2010	Pierre and Marie Curie University Paris 6. Problem sessions.
2009 – 2010	Oral examiner in preparatory classes to elite schools.

Other service

2020 – ...	Elected parents' representative at my children's school.
2019 – ...	Elected member of my apartment building residents' committee (Conseil Syndical).

Languages

French: Native. **German:** Mother tongue. **English:** Excellent. **Swedish:** Good.