

Professional experiences

- Since Sept. 2019 **Assistant professor**, *Institut de Recherche Mathématique Avancée (IRMA)*
• University of Strasbourg.
• Member of the INRIA TONUS project team, *Nancy-Grand Est*
- 2018 - 2019 **Postdoc position**, *Toulouse Mathematics Institute*
with Pascal Noble.
Joint work with the "Service Hydrographique et Océanographique de la Marine" (SHOM).
TITLE : • Dispersive Green-Naghdi type modelling, transition hyperbolic/hyperbolic-dispersive.
• Multilayer shallow water system : stability of a low Froude number scheme.
- 2017 - 2018 **Postdoc position**, *University of Strasbourg*
with Emmanuel Franck.
TITLE : • Study of precessing domain walls for the Landau-Lifshitz-Gilbert equation.
• Study of implicit relaxation schemes for low Mach number Euler equations.
- 2014 - 2017 **Ph.D. in mathematics**, *Paris Sud University, (Orsay, France)*
under the direction of Frédéric Lagoutière and Frédéric Rousset.
TITLE : Numerical analysis of hyperbolic-dispersive systems.

Prizes and awards

- 2021 - 2025 Doctoral and research supervision grants (PEDR)

Education

- 2014 - 2017 **Ph.D. in mathematics**, *Paris Sud University, (Orsay, France)* (defended on the 11/23/2017).
under the direction of Frédéric Lagoutière and Frédéric Rousset.
TITLE : Numerical analysis of hyperbolic-dispersive systems.
KEY WORDS : partial differential equations, Korteweg-de Vries equation, finite differences, error estimates, numerical convergence, traveling waves
- 2013 - 2014 **Master's degree (Research)**, *Paris Sud University, (Orsay, France)*
Specialization : Partial Differential Equations and Scientific Computing. *Magna cum laude*.
- 2013 **Civil service competitive examination in the public education system**
(Agrégation externe de mathématiques)
Scientific Computing option. *Rank : 32/323*.
- 2012 - 2013 **Master's degree (Teaching)**, *ENS of Cachan, (France)*
Preparation for a teaching competitive exam (agrégation externe). *Summa cum laude*.
- 2012 **National examination for the admission in third year at ENS Cachan**
Successful candidate. *Rank : 8/29*.
- 2011 - 2012 **Four-year university degree**, *École Normale Supérieure of Cachan, (France)*.
Department of Mathematics. *Summa cum laude*.
- 2010 - 2011 **Bachelor's degree**, *École Normale Supérieure of Cachan, (France)*.
Department of Mathematics. *Summa cum laude*.
- 2008 - 2010 **Undergraduate courses to prepare nationwide competitive exams in sciences**
(Classe Préparatoire aux Grandes Écoles),
Lycée Pierre Corneille, (Rouen, France).
- 2008 **A level**, *Institution Rey, (Rouen, France)*.
Mathematics option. *Summa cum laude*.

Publications

Papers

- [A6] **Micromagnetic simulations of the size dependence of the Curie temperature in ferromagnetic nanowires and nanolayers**, C.Courtès, M.Boileau, R.Côte, P.-A.Hervieux et G.Manfredi, submitted, 2023. (HAL)
- [A5] **Minimal time of magnetization switching in small ferromagnetic ellipsoidal samples**
R.Côte, C.Courtès, G.Ferriere et Y.Privat, submitted, 2023. (HAL)
- [A4] **Reduced modelling and optimal control of epidemiological individual-based models with contact heterogeneity**, C.Courtès, E.Franck, K.Lutz, L.Navoret and Y.Privat, *Optim. Control Appl. Meth.*, doi : 10.1002/oca.2970, 2023, p.1-35. (HAL)
- [A3] **Vectorial kinetic relaxation model with central velocity. Application to implicit relaxation schemes**, D.Coulette, C.Courtès, E.Franck and L.Navoret, *Commun. Comput. Phys.*, Vol.27, no.4, 2020, p.976-1013. (HAL)
- [A2] **Error estimates of finite difference schemes for the Korteweg-de Vries equation**, C.Courtès, F. Lagoutière and F.Rousset, *IMA Journal of Numerical Analysis*, Vol.40, no.1, 2020, p.628-685. (HAL)
- [A1] **Energy estimates for some numerical schemes on the *abcd* system**, C.Burtea and C.Courtès, *Commun. in Mathematical Sciences*, Vol.17, no.1, 2019, p.243-298. (HAL)

Proceedings

- [P3] **Linear stability of a vectorial kinetic relaxation scheme with a central velocity**, C.Courtès and E.Franck, *Hyperbolic Problems : Theory, Numerics and Applications, AIMS on Applied Mathematics*, Vol.10, 2020, p.400-407. (HAL)
- [P2] **Convergence for PDEs with an arbitrary odd order spatial derivative term**
C.Courtès, *Theory, Numerics and Applications of Hyperbolic Problems I*, Springer Proceedings in Mathematics and Statistics, Vol.236, 2018, p.413-425. (HAL)
- [P1] **Study of physic-based preconditioning with high order Galerkin method discretization for hyperbolic wave problems**, C.Courtès, E.Franck, P.Helluy and H.Oberlin, *Esaim Proceedings and Surveys*, Vol.55, 2016, p.61-82. (HAL)

Research report

- [R1] **Compressed sensing pour l'imagerie radar : Semaine d'Etude Maths Entreprises, Paris, 12-16 janvier 2015**, C.Courtès, G.Dusson, R.Hatchi, R.Molina and A.Thomas, 2015. (HAL)

Talks and poster sessions

Talks and seminars

- (future) In 2024 : May Seminar "Rencontres INRIA-LJLL en calcul scientifique", Paris
(future) Apr Optimization and nonlinear analysis seminar, LMA, University of Avignon
(future) Feb Numerical analysis and PDEs seminar, University of Lille
Feb INRIA seminar (POEMS team), INRIA, ENSTA
Feb Talk in the TONUS/MACARON days, INRIA, Strasbourg
- In 2023 : Apr Mentor for the Lebesgue Ph.D. Meeting, University of Nantes
March Talk in Working group "Machine Learning", University of Strasbourg
Jan Mini-course at the masterclass on PDE, University of Lorraine, Nancy
- In 2022 : Oct Scientific talk for the HCERES visit, Université de Strasbourg
Jul Talk at the workshop of ANR MOSICOF, Sorbonne University
June Reims Mathematics Laboratory seminar, University of Reims
March PDEs days of Élie Cartan's Institut, University of Lorraine
March Analysis seminar, University of Strasbourg
March PDE, Modelling and Scientific computing seminar, Institut Camille Jordan, Lyon
- In 2021 : Dec Talk in Working group "Machine Learning" (online), University of Strasbourg
Nov Talk in Working group "Machine Learning" (online), University of Strasbourg
May Talk in Working group "Machine Learning" (online), University of Strasbourg
March Talk in Working group "Machine Learning" (online), University of Strasbourg
Jan PDE and numerical analysis seminar (online), University of Nice
- In 2020 : Dec PDE and Applications seminar (online), University of Poitiers
Nov Mini-course, PDE seminar (online), University of Strasbourg

- June ~~PDEs and numerical analysis seminar, University of Nice¹~~
 May ~~PDE, Modelling and Scientific computing seminar, Institut Camille Jordan, Lyon¹~~
 March ~~PDEs days of Élie Cartan's Institut, University of Lorraine¹~~
 Feb 32nd Seminar on Computational Fluid Dynamics, CEA-GAMNI, Paris
 Jan 11th Itinerant Workshop in PDEs, Hausdorff Center for Mathematics, Bonn (Germany)
 In 2019 : Oct Talk at the IRMA day, University of Strasbourg
 May Shark-FV 2019, Povia de Varzim (Portugal)
 Sharing Higher-order Advanced Know-how on Finite Volume
 Feb. Numerical Analysis and Scientific Computing seminar, University of Besançon, (France)
 In 2018 : Dec. Mathematics for the Industry and Physics day, University of Toulouse, (France)
 Dec. Scientific computing and modeling seminar, University of Bordeaux, (France)
 Oct. New entrants day, INSA of Toulouse, (France)
 June Conference HYP, University Park, Pennsylvania (USA)
 XVII^e International Conference on Hyperbolic Problems
 May CANUM, minisymposium, Cap d'Agde, Hérault, (France)
 March Conference "Journées Jeunes EDPistes français", University of Lorraine, Nancy (France)
 March INRIA seminar (ANGE team), Paris (France)
 March PDEs and numerical analysis seminar, University of Nice (France)
 Feb. Applied mathematics seminar, University of Nantes (France)
 In 2017 : Oct. Lebesgue Ph.D. Meeting, University of Rennes 1 (France)
 Oct. Numerical analysis and PDEs day, Paris Sud University, Orsay (France)
 Aug. Talk at summer school, Les Houches (France)
 Dispersives hydrodynamics and oceanography : from experiments to theory
 June Congress SMAI, La Tremblade, Charente-Maritime (France)
 Eighth Biennial Meeting of applied Mathematics.
 March Numerical analysis and PDEs seminar, University of Lille (France)
 March Ph.D. seminar, University of Nantes (France)
 Feb. Young researchers seminar, University of Lorraine, Metz (France)
 In 2016 : Oct. Young researchers seminar, University Paris-Descartes
 Oct. Young researchers seminar, University Paris-Est
 June ECMI Conference, Universidade de Santiago de Compostela, (Spain)
 The 19th European Conference on Mathematics for Industry
 May Congress CANUM, Obernai, Alsace (France)
 43th National Congress of Numerical Analysis
 March PDEs seminar, Paris Sud University, Orsay (France)
 In 2015 : Nov. Young researchers "Landau" seminar, University of Rennes 1 (France)
 Nov. Young researchers seminar, University of Reims Champagne-Ardenne (France)
 Nov. PDEs seminar, University of Strasbourg (France)
 Nov. Internal meeting, ANR BoND, University of Besançon (France)
 June Ph.D. seminar, Paris Sud University, Orsay (France)

Poster sessions

- In 2019 : June Poster session, "Numerical Methods for Multiscale Models", Nantes, (France)
 A conference related to the ANR project MoHyCon.
 March Poster session, Conference Jeunes EDPistes, Rennes, (France)
 In 2018 : June Poster session, Conference HYP, University Park, Pennsylvania (USA)
 XVII^e International Conference on Hyperbolic Problems
 In 2017 : March Poster session, Conference Jeunes EDPistes, Autrans, Isère (France)
 In 2016 : Aug. Poster session, Conference HYP, RWTH Aachen University, (Germany)
 XVI International Conference on Hyperbolic Problems
 In 2015 : June Poster session, Congress SMAI, Les Karellis, Savoie (France)
 Seventh Biennial Meeting of applied Mathematics.

1. Cancelled due to COVID-19 outbreak

Other conferences I have attended (without talks)

- In 2023 : Nov Workshop « NumKin2023 », *Garching bei München, (Germany)*
Oct Conference "Finite Volumes for Complex Applications" (FVCA 10), *Strasbourg*
June Workshop « Fifth Workshop on Compressible Multiphase Flows », *Strasbourg*
Jan Meeting of ANR MOSICOF, *Strasbourg*
- In 2022 : Nov Workshop « NumKin2022 », *Garching bei München, (Germany)*
June Conference HYP2022, *Malaga, (Spain)*
June Congress ECCOMAS 2022, *Oslo, (Norway)*
June Workshop « Fourth Workshop on Compressible Multiphase Flows », *Strasbourg*
Jan. Master class EDP, optimization and data, *Strasbourg*
- In 2021 : June Conference "Analyse and PDE", *online*
June Workshop "Third Workshop on Compressible Multiphase Flows", *Strasbourg*
June Workshop "NumKin2021", *online*
June Conference "Journées EDP", *Obernai*
Jan. Seminar CEA-GAMNI, *online*
- In 2020 : Dec Congress of Numerical Analysis, for young researchers, *online*
- In 2019 : Oct Conference "Control and Dynamics of PDE", *Strasbourg (France)*
Oct Workshop "NumKin2019", *Garching bei München (Germany)*
- In 2018 : Oct. Workshop "Nonlinear Waveguides and Related Topics", *Toulouse (France)*
June Conference "Journées EDP", *Obernai (France)*
Feb. "Numerical Boundaries and Coupling" first meeting of the ANR NABUCO, *Toulouse*
Jan. Master class on analysis, *Strasbourg (France)*
- In 2017 : Jan. Seminar CEA-GAMNI, *IHP, Paris (France)*
- In 2016 : Nov. Workshop "Waves, boundaries and oscillations in numerical schemes", *Rennes (France)*
March Workshop "Journées Jeunes EDPistes français", *Bordeaux (France)*
Jan. Seminar CEA-GAMNI, *IHP, Paris (France)*
- In 2015 : Nov. Workshop "Phénomènes non linéaires en optique", *Besançon (France)*
Feb. Seminar CEA-GAMNI, *IHP, Paris (France)*
- In 2014 : Nov. Colloquium "REvISitiNg DEcadES of conseRvation laws", *Lyon (France)*

Schools and research projects

- 2021-2025 **Member of ANR project MOSICOF**
 - Research project : Modeling and Simulation of Complex Ferromagnetic Systems
 - Principal Investigator : S. Labbé (Sorbonne University)
- 2021-2024 **Member of ANR project MILK**
 - Projet de recherche : Machine Learning for reduced Kinetic models
 - Principal Investigator : E. Franck (INRIA Nancy-Grand Est, University of Strasbourg)
- 2019 **Principal Investigator of project "PEPS Jeunes Chercheur-e-s 2019" (~ 3500€)**
 - Research project : Study of the magnetization reversal dynamics in nanowires : influence of temperature and external magnetic field
 - Associate collaborators : R.Côte, P.-A.Hervieux, R.Ignat, G.Manfredi
- 2018 **Member of project "PEPS Jeunes Chercheur-e-s 2018" (~ 4500€)**
 - Research project : Implicit relaxation schemes for hyperbolic and parabolic systems
 - Other members : E.Franck (Principal Investigator of the project), F.Drui
- Aug. 2017 **Summer school, Les Houches (Mont Blanc valley)**
Dispersive hydrodynamics and oceanography : from experiments to theory
- July- **CEMRACS'15, CIRM, Marseille**
- Aug. 2015
 - Summer school : Coupling Multi-Physics Models involving Fluids
 - Research session : Adaptative physic based preconditioning for a linearized discontinuous Galerkin Shallow water scheme
 - Collaborators : E.Franck, P.Helluy and H.Oberlin

- Jan. 2015 **Workshop on subjects proposed by industrials, (Semaine d'Étude Maths Entreprises), Paris**
- Research subject : Application of Compress sensing out of frame of image processing
 - Industrial collaborators : Airbus
- Feb.-Aug. 2014 **Master's thesis, Mathematics Laboratory at Orsay, (Paris Sud University)**
- Research subject : Study of Airy equation under constraint
 - Supervisors : F.Lagoutière and F.Rousset
- Feb. 2014 **Winter school, Les Houches (Mont Blanc valley)**
- Nonlinear dispersive waves : theory, numerics and applications
- Feb.-July 2012 **Thesis, Atomic Energy and Alternative Energies Commission, (Arpajon, France)**
- Research subject : Study of numerical centered schemes for Lagrangian hydrodynamics in order to compare them to staggered schemes
 - Supervisors : C.Aymard and C.Fochesato
- Feb.-June 2011 **Research internship, Research Center for Applied Maths (CMLA), ENS Cachan, (France)**
- Research subject : Study of the speed of sound in multi-fluid mechanics
 - Supervisor : J.M.Ghidaglia

Teaching experience

University of Strasbourg

- First year of Bachelor
- **Khôlles in Analysis : oral session**
 - 2020-2021 : 2h, bachelor of MPA (selective sector : Mathematics, Physics)
 - **Mathematical modelling : lecture and exercises sessions**
 - 2017-2018 : 20h, bachelor of MI (Mathematics, Computer Science)
- Second year of Bachelor
- **Applied numerical analysis : lecture with Scilab**
 - 2019-2020, 2020-2021, 2021-2022, 2022-2023 : 18h, bachelor of Computer Science
 - **Functions of several real variables : exercises sessions**
 - 2019-2020 (10h), 2020-2021 (12h), 2021-2022 (28h) : bachelor of Physics
- Third year of Bachelor
- **Scientific Computing : lecture/exercises and practical sessions with Python/Projects**
 - 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024 : 65h, bachelor of Mathematics (Magistère)
 - **Numerical analysis : lecture/exercises and practical sessions with Python**
 - 2019-2020, 2020-2021, 2021-2022, 2022-2023 : 32h, bachelor of Pure/Applied Maths and CAPES
 - **Nonlinear optimization : lecture/exercises sessions**
 - 2021-2022 (54h), 2022-2023 (61h), 2023-2024 (39h) : Math-Eco dual bachelor/ Actuarial Sciences
- First year of Master
- **Optimization : practical sessions with Python**
 - 2021-2022, 2022-2023 : 6h, Master of Scientific Computing and Pure Mathematics
- Agrégation
- **Scientific Computing : oral sessions**
 - 2021-2022 : 4h, Second year of Master to prepare the competitive exam : agrégation externe
- Second year of Master
- **Evolutionary nonlinear PDE's : lecture/exercises sessions**
 - 2022-2023 : 30h, Second year of Research Master in "PDE's and deep learning"

INSA of Toulouse

- "Construction Engineering" specialization
- **Introduction to PDE and to Fourier theory : exercises sessions**
 - 2018-2019 : 13h, Third year
 - **Numerical analysis for ODE : practical sessions with Python**
 - 2018-2019 : 15h, Second year

Polytech Paris Sud

- Engineering training
- **ODEs, PDEs and Scientifics Computing : exercises and practical sessions with Python**
 - 2015-2016 (21h), 2016-2017 (27h), 2017-2018 (9h) : First year of engineering training

Paris Sud University

- First year of Bachelor
- **Analysis and Probability : exercises sessions**
 - 2014-2015 : 32h, bachelor of BCST (Biology, Chemistry, Earth and Life Science)
 - **Analysis : exercises sessions**
 - 2015-2016 (17h), 2016-2017 (8h) : bachelor of MPI (Mathematics, Physics, Computer Science)
- Second year of Bachelor
- **Introduction of Scientific Computing : practical sessions with Python**
 - 2015-2016, 2016-2017 : 10h, MPI and Economics and Mathematics dual bachelor

- Third year of Bachelor
- **Scientific Computing : practical sessions with C**
2014-2015 : 28h, bachelor of MINT (Mathematics and INTeraction)
 - **Scientific Computing : practical sessions with Python**
2015-2016, 2016-2017 : 18h, Maths in interaction and HEC/Maths dual bachelor
 - **Analysis and numerical resolution of ODEs : lecture/exercises and practical sessions**
2017-2018 : 26h, HEC and Mathematics dual bachelor
- Agrégation
- **Scientific Computing : lecture and oral sessions**
2017-2018 : 10h, Second year of Master to prepare the competitive exam : agrégation externe

Various responsibilities

Scientific responsibilities

- 2024 **Co-organiser of the Maths-Physics congress, Strasbourg**
• (congress website : <https://icmp2024.org/>)
- 2023 **Co-organiser of FVCA10 congress, Strasbourg**
• (congress website : <https://indico.math.cnrs.fr/e/fvca10>)
- Since 2023 **Co-organiser of the sem'in (laboratory internal seminar), Université de Strasbourg**
• (seminar website : <https://irma.math.unistra.fr/seminaires/seminaire-sem-in.html>)
- 2022 **Co-organiser of the summer school "Deep learning and applications", University of Strasbourg**
• (summer school website : <https://indico.math.cnrs.fr/e/DeepLearningApplications>)
- 2022 **Co-organiser of a mini-symposium "Study of ferromagnetic systems"**
• ECCOMAS congress 2022
- Since 2021 **Co-organiser of the research seminar, University of Strasbourg**
• (seminar website : https://seminaire_edp.pages.math.unistra.fr/)
- 2019 **Principal Investigator of project "PEPS Jeunes Chercheur-e-s 2019" (~ 3500€)**
• Research project : Study of the magnetization reversal dynamics in nanowires : influence of temperature and external magnetic field
• Associate collaborators : R.Côte, P.-A.Hervieux, R.Ignat, G.Manfredi
- Since 2016 **Referee for the following journals**
IMA Journal of Numerical Analysis, Nonlinearity, Numerical Algorithms, Applied Mathematics and Computation, Communications in Nonlinear Science and Numerical Simulation, Engineering Computations, Mathematical Reviews (+ 4 article reviews for MathScinet)
- 2016-2017 **Co-organiser of the Ph.D's seminar, Paris Sud University**

Administrative activities

- Since 2024 **"Parity responsible" of the laboratory, University of Strasbourg**
- Since 2024 **Member of the laboratory board, University of Strasbourg**
- Since 2021 **Member of the mathematician committee, University of Strasbourg**
- Since 2021 **Member of the INRIA center committee, INRIA Nancy, Grand Est**
- Since 2021 **In charge of a Bachelor programm, University of Strasbourg**
• "Administrative Competitions" programm of the Bachelor of Science and Technology, (webpage)
• Joint programm between the UFR Mathematics-Informatics and IPAG
- 2016-2017 **Member of the laboratory board, Paris Sud University**

Supervision

Ph.D. supervision

- 2023-2026 Lauriane Turelier (50%, with R. Côte)
Ferromagnetism and domain walls in nanowires

Postdoctoral research

- 2022-2023 Ludovic Godard-Cadillac (1 year, 33%, with R. Côte and Y. Privat)
Systems of nanoparticles in interaction (Ludovic is actually assistant prof. at Bordeaux)
- 2021-2023 Guillaume Ferriere (2 years, 33%, with R. Côte and Y. Privat)
Stability and control of ferromagnetic nanowires (Guillaume is actually INRIA researcher at Lille)

Master thesis supervision

- 2022-2023 **Master thesis** of Lauriane Turelier (5 months, 50%, with R. Côte)
Stability of solitons and domain walls
- 2022-2023 **Scientific computing project** of Lucas Palazzolo (3 months, 100%)
Numerical simulations of ferromagnetic materials

2021-2022 **Master thesis** of Roxana Sublet (5 months, 100%)
Classification problems and support vector machine

Master dissertation and internship

2022-2023 **Scientific text study** of Pierre Balzano (4 months, 50%, with V. Michel-Dansac)
Introduction to the analysis of hyperbolic systems

2020-2021 **Research internship** of Killian Lutz (3 months, 25%, with E. Franck, L. Navoret and Y. Privat)
Control and machine learning for epidemiology

Dissertation and projects of 3rd year of Bachelor

Depuis 2019 **Projects in scientific computing** (3 months, 100%)
between 10 and 15 projects per year.

2023-2024 **Dissertation of 3rd year of Bachelor** of Elisa Cuoco, (4 months, 100%)
Variational PDE formulation and finite element method

2020-2021 **Dissertation of 3rd year of Bachelor** of Lucas Palazzolo, (4 months, 100%)
Study of the soliton of Korteweg-de Vries equation and non linear Schrödinger equation

2019-2020 ~~**Dissertation of 3rd year of Bachelor**~~ of Roxana Sublet¹

2019-2020 ~~**Dissertation of 3rd year of Bachelor**~~ of Mathéo Marquat¹

Participation in juries

Selection committee for an associate professor

- 2024 (CNU 26), *University of Lorraine*
- 2023 (CNU 26), *University of Strasbourg*
- 2020 (CNU 25-26), *University of Strasbourg*

Involvement in PhD committees

- 2023 (member of the PhD committee) Mouna Kassan, *University of Pau and Pays de l'Adour*
- 2023 (thesis monitoring committee) Srikanth Togere Nagesh, *Observatory of Strasbourg*
- 2023, 2022 (thesis monitoring committee) Hung Yen-Chung, *University Grenoble Alpes*

Participation in jury competition

- Since 2022 **Member of the jury for the education competition : agrégation externe**
- 2023, 2022, 2021 **Proofreader and corrector of the mathematics test, ENS competition in B/L section**
- Since 2024 **Member of the jury for the "Olympiades de mathématiques en première"**

Expertise in file review

- Since 2021 **Member of the (bachelor) selection committee Parcoursup and eCandidat, Univ. of Strasbourg**

Science popularization

Summer school and workshops for high school students

- 2024, 2023 **Les Cigognes** (website)
School of mathematics and computer science for high school girls in the Grand Est
Co-organisers : Anne de Roton, Marie Dufлот-Kremer, Pierre Py and Samuel Tapie
- (future) 2024 **Scientific workshop for high school in Bouxwiller**
For the laboratory of mathematics of high schools in Ingwiller-Bouxwiller
- 2023 **Scientific workshop during the MathC2+ school**
Co-organiser : Pierre Py

Talk on popularization of science for high schools

- 2024, 2023 Talk in the MathC2+ school in Strasbourg university
- 2023 Talk for the laboratory of mathematics of high schools in Ingwiller-Bouxwiller
- 2023 Talk in the RJMI workshop in Strasbourg university

Presentation on scientific careers in the academic community

- 2023 Talk for Ph.D. students, (*online*)

Presentation of post-baccalaureate studies and open day in the university

- Since 2020 **University and post-baccalaureate training programs days, Strasbourg** (no day in 2022)
Speaker for the Faculty of Mathematics and Computer Science

1. dissertation cancelled due to COVID-19 outbreak

- 2019 **Open Day, INSA of Toulouse**
Speaker for the Department of Mathematics and Modelling
- 2016 **Salon de l'orientation ONISEP, Paris**
SMAI/applied mathematics representative

"Girls and Mathematics" day

- 2023, 2018 Animation of speed-meetings between high school girls and women scientists
(2023 at Mulhouse, 2018 at Toulouse)