

Jérôme VÉTOIS

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Positions

- 2019 – Associate Professor, McGill University, Montreal, Canada
Member of the CRM Mathematical Analysis Laboratory (International Joint Unit of the CNRS, France)
- 2015 – 2019 Assistant Professor, McGill University, Montreal, Canada
- 2009 – 2015 Maître de conférences (Assistant/Associate Professor), University of Nice Sophia Antipolis, France
- 2008 – 2009 Attaché temporaire d’enseignement et de recherche (Assistant Professor, one-year term), University of Cergy-Pontoise, France

Diplomas

- 2017 Habilitation thesis, University of Nice Sophia Antipolis, France, defended on June 22, 2017
- 2008 PhD thesis, University of Cergy-Pontoise, France, defended on December 4, 2008, advisor: Emmanuel Hebey
- 2005 Agrégation de mathématiques (French nationwide examination for teaching)

Research Areas

- Nonlinear Partial Differential Equations
- Nonlinear Analysis on Manifolds

Preprints

- [39] B. Premoselli and J. Vétois, *Nonexistence of minimizers for the second conformal eigenvalue near the round sphere in low dimensions*, arXiv:2408.07823.

Peer-reviewed Journal Articles

- [38] J. Flynn and J. Vétois, *Liouville-type results for the CR Yamabe equation in the Heisenberg group*, Annali della Scuola Normale Superiore di Pisa - Classe di Scienze (to appear). Preprint at arXiv:2310.14048.
- [37] S. Mazumdar and J. Vétois, *Existence results for the higher-order Q -curvature equation*, Calculus of variations and Partial Differential Equations **63** (2024), 151, 29 p.
- [36] J. Vétois, *Uniqueness of conformal metrics with constant Q -curvature on closed Einstein manifolds*, Potential Analysis **61** (2024), no. 3, 485–500.

- [35] J. Vétois, *A note on the classification of positive solutions to the critical p -Laplace equation in \mathbb{R}^n* , *Advanced Nonlinear Studies* **24** (2024), no. 3, 543–552.
- [34] F. Robert and J. Vétois, *Blowing-up solutions for second-order critical elliptic equations: the impact of the scalar curvature*, *International Mathematics Research Notices* **2023** (2023), no. 2, 901–931. Extended version at arXiv:1912.09376.
- [33] B. Premoselli and J. Vétois, *Sign-changing blow-up for the Yamabe equation at the lowest energy level*, *Advances in Mathematics* **410B** (2022), 108769, 50 p.
- [32] B. Premoselli and J. Vétois, *Stability and instability results for sign-changing solutions to second-order critical elliptic equations*, *Journal de Mathématiques Pures et Appliquées* **167** (2022), 257–293.
- [31] L. Martinazzi, P.-D. Thizy and J. Vétois, *Sign-changing blow-up for the Moser-Trudinger equation*, *Journal of Functional Analysis* **282** (2022), no. 2, 109288, 85 p.
- [30] S. Mazumdar and J. Vétois, *Non-synchronized solutions to nonlinear elliptic Schrödinger systems on a closed Riemannian manifold*, *Discrete and Continuous Dynamical Systems* **42** (2022), no. 11, 5273–5287.
- [29] J. Vétois, *Convergence result and blow-up examples for the Guan–Li mean curvature flow on warped product spaces*, *Communications in Analysis and Geometry* **29** (2021), no. 8, 1917–1935.
- [28] S. Shakerian and J. Vétois, *Sharp pointwise estimates for weighted critical p -Laplace equations*, *Nonlinear Analysis: Theory, Methods & Applications* **206** (2021), 112236, 18 p.
- [27] F. C. Cîrstea, F. Robert and J. Vétois, *Examples of sharp asymptotic profiles of singular solutions to an elliptic equation with a sign-changing non-linearity*, *Mathematische Annalen* **375** (2019), no. 3–4, 1193–1230.
- [26] B. Premoselli and J. Vétois, *Compactness of sign-changing solutions to scalar curvature-type equations with bounded negative part*, *Journal of Differential Equations* **266** (2019), no. 11, 7416–7458.
- [25] J. Vétois, *Decay estimates and symmetry of finite energy solutions to elliptic systems in \mathbb{R}^n* , *Indiana University Mathematics Journal* **68** (2019), no. 3, 663–696.
- [24] J. Vétois and S. Wang, *Infinitely many solutions for cubic nonlinear Schrödinger equations in dimension four*, *Advances in Nonlinear Analysis* **8** (2019), no. 1, 715–724.
- [23] P.-D. Thizy and J. Vétois, *Positive clusters for smooth perturbations of a critical elliptic equation in dimensions four and five*, *Journal of Functional Analysis* **275** (2018), no. 1, 170–195.
- [22] J. Vétois, *A priori estimates and application to the symmetry of solutions for critical p -Laplace equations*, *Journal of Differential Equations* **260** (2016), no. 1, 149–161.
- [21] O. Druet, E. Hebey and J. Vétois, *Static Klein–Gordon–Maxwell–Proca systems in 4-dimensional closed manifolds II*, *Journal für die reine und angewandte Mathematik* **713** (2016), 149–179.

- [20] J. Vétois, *Decay estimates and a vanishing phenomenon for the solutions of critical anisotropic equations*, *Advances in Mathematics* **284** (2015), 122–158.
- [19] F. Robert and J. Vétois, *Sign-changing solutions to elliptic second order equations: glueing a peak to a degenerate critical manifold*, *Calculus of variations and Partial Differential Equations* **54** (2015), no. 1, 693–716.
- [18] F. C. Cîrstea and J. Vétois, *Fundamental solutions for anisotropic elliptic equations: existence and a priori estimates*, *Communications in Partial Differential Equations* **40** (2015), no. 4, 727–765.
- [17] J. Vétois, *Continuity and injectivity of optimal maps*, *Calculus of variations and Partial Differential Equations* **52** (2015), no. 3, 587–607.
- [16] F. Robert and J. Vétois, *Examples of non-isolated blow-up for perturbations of the scalar curvature equation*, *Journal of Differential Geometry* **98** (2014), no. 2, 349–356.
- [15] P. Esposito, A. Pistoia and J. Vétois, *The effect of linear perturbations on the Yamabe problem*, *Mathematische Annalen* **358** (2014), no. 1–2, 511–560.
- [14] F. Robert and J. Vétois, *Sign-changing blow-up for scalar curvature type equations*, *Communications in Partial Differential Equations* **38** (2013), no. 8, 1437–1465.
- [13] A. Pistoia and J. Vétois, *Sign-changing bubble towers for asymptotically critical elliptic equations on Riemannian manifolds*, *Journal of Differential Equations* **254** (2013), no. 11, 4245–4278.
- [12] P. Esposito, A. Pistoia and J. Vétois, *Blow-up solutions for linear perturbations of the Yamabe equation*, *Concentration Analysis and Applications to PDE (ICTS Workshop, Bangalore, 2012)*, *Trends in Mathematics*, Birkhäuser/Springer Basel, 2013, 29–47.
- [11] F. Robert and J. Vétois, *A general theorem for the construction of blowing-up solutions to some elliptic nonlinear equations via Lyapunov-Schmidt’s finite-dimensional reduction*, *Concentration Analysis and Applications to PDE (ICTS Workshop, Bangalore, 2012)*, *Trends in Mathematics*, Birkhäuser/Springer Basel, 2013, 85–116.
- [10] J. Vétois, *Strong maximum principles for anisotropic elliptic and parabolic equations*, *Advanced Nonlinear Studies* **12** (2012), no. 1, 101–114.
- [9] J. Vétois, *Existence and regularity for critical anisotropic equations with critical directions*, *Advances in Differential Equations* **16** (2011), no. 1/2, 61–83.
- [8] J. Vétois, *The blow-up of critical anisotropic equations with critical directions*, *NoDEA Nonlinear Differential Equations and Applications* **18** (2011), no. 2, 173–197.
- [7] O. Druet, E. Hebey and J. Vétois, *Bounded stability for strongly coupled critical elliptic systems below the geometric threshold of the conformal Laplacian*, *Journal of Functional Analysis* **258** (2010), no. 3, 999–1059.
- [6] J. Vétois, *Asymptotic stability, convexity and Lipschitz regularity of domains in the anisotropic regime*, *Communications in Contemporary Mathematics* **12** (2010), no. 1, 35–53.
- [5] J. Vétois, *A priori estimates for solutions of anisotropic elliptic equations*, *Nonlinear Analysis: Theory, Methods & Applications* **71** (2009), no. 9, 3881–3905.

- [4] A. M. Micheletti, A. Pistoia and J. Vétois, *Blow-up solutions for asymptotically critical elliptic equations on Riemannian manifolds*, Indiana University Mathematics Journal **58** (2009), no. 4, 1719–1746.
- [3] A. El Hamidi and J. Vétois, *Sharp Sobolev asymptotics for critical anisotropic equations*, Archive for Rational Mechanics and Analysis **192** (2009), no. 1, 1–36.
- [2] E. Hebey and J. Vétois, *Multiple solutions for critical elliptic systems in potential form*, Communications on Pure and Applied Analysis **7** (2008), no. 3, 715–741.
- [1] J. Vétois, *Multiple solutions for nonlinear elliptic equations on compact Riemannian manifolds*, International Journal of Mathematics **18** (2007), no. 9, 1071–1111.

Invited Talks at Workshops and Seminars
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I stopped traveling by plane as much as possible to reduce my ecological footprint.

- 2024 Algebra and Geometry Seminar, University of New-Mexico, Albuquerque, US (online, Mar. 20, 2024)
- 2023 Mathematics Colloquium, Howard University, Washington, US (online, Oct. 13, 2023)
- 2022 Geometric Analysis Seminar, IIT Bombay, Mumbai (online, Nov. 24, 2022)
 Analysis Seminar, CRM, Montreal, Canada (Nov. 11, 2022)
 International Symposium on PDE and Geometric Analysis, University of Mumbai (online, Mar. 19, 2022)
 Virtual Seminar on Geometric and Functional Inequalities and Applications, co-organized by J. Flynn (University of Connecticut), N. Lam (Memorial University of Newfoundland), J. Li (Brown University) and G. Lu (University of Connecticut) (online, Mar. 7, 2022)
- 2021 Workshop on Nonlinear Elliptic and Parabolic Partial Differential Equations, CIRM, Leviso Terme (online, Oct. 12, 2021)
 Canadian Mathematical Society 75th Anniversary Summer Meeting, Geometric Analysis session, University of Ottawa (online, June 8, 2021)
- 2019 Winter Meeting of the Canadian Mathematical Society, Geometric Analysis and Mathematical Relativity Session, Toronto, Canada (Dec. 8, 2019)
 PDE Seminar, Brown University, Providence, US (Dec. 6, 2019)
 Workshop on Nonlinear Geometric PDE, Banff International Research Station, Banff Centre, Canada (May 9, 2019)
- 2018 Analysis and PDE Seminar, Camille Jordan Institute, Claude Bernard University Lyon 1, France (Oct. 9, 2018)
 Differential Geometry, Mathematical Physics and PDE Seminar, University of British Columbia, Vancouver, Canada (Mar. 6, 2018)
- 2017 Fall Western AMS Sectional Meeting, Session on Nonlinear Elliptic Differential and Integral Equations, University of California, Riverside, US (Nov. 4, 2017)

- Workshop on Elliptic Partial Differential Equations of Second Order: Celebrating 40 Years of Gilbarg and Trudinger's Book, MATRIX, Melbourne, Australia (October 23, 2017)
- Workshop on Geometric Properties of Local and non-Local PDEs, Banff International Research Station, Oaxaca, Mexico (May 25, 2017)
- PDE Seminar, University of Lorraine, Metz, France (Mar. 3, 2017)
- France-Italy Meeting in Geometric Analysis, Centro di Ricerca Matematica Ennio de Giorgi, Pisa, Italy (Feb. 22, 2017)
- 2016 International Conference on Nonlinear Partial Differential Equations: A Celebration of Professor Norman Dancer's 70th Birthday, University of New England, Armidale, Australia (Nov. 22, 2016)
- Summer Meeting of the Canadian Mathematical Society, PDE Session, University of Alberta, Edmonton, Canada (Jun. 26, 2016)
- Geometry and Topology Seminar, CIRGET, Montreal, Canada (Feb. 26, 2016)
- Quebec Mathematical Sciences Colloquium, CRM, Montreal, Canada (Jan. 29, 2016)
- 2015 Geometric CORP Seminar, Domain of Seillac, France (Sept. 17, 2015)
- 17th Mathematical Meeting of Rouen, University of Rouen, France (Jun. 18, 2015)
- Harmonic Analysis Seminar, University Paris-Sud, Orsay, France (Jan. 12, 2015)
- Analysis Seminar, McGill University, Montreal, Canada (Jan. 5, 2015)
- 2014 8th Australia New Zealand Mathematics Convention, Harmonic Analysis and PDE Session, University of Melbourne, Australia (Dec. 8, 2014)
- PDE and Analysis Seminar, ANU Mathematical Sciences Institute, Canberra, Australia (Nov. 18, 2014)
- PDE Seminar, University of Sydney, Australia (Oct. 20, 2014)
- Inter-teams Workshop of the Laboratory J.A. Dieudonné, Lake of Como, Italy (Sept. 24, 2014)
- Joint Regional Seminar on Geometric Analysis, CIRM, Marseille, France (Sept. 6, 2014)
- 12th Franco-Romanian Conference on Applied Mathematics, Analysis Session, University of Lyon, France (Aug. 25, 2014)
- 5th IST-IME Meeting, University of São Paulo, Brazil (Aug. 1st, 2014)
- 2013 Geometric Analysis and PDE Seminar, University of Wollongong, Australia (Sept. 3, 2013)
- PDE Seminar, University of Sydney, Australia (Sept. 2, 2013)
- PDE and Analysis Seminar, ANU Mathematical Sciences Institute, Canberra, Australia (Aug. 27, 2013)
- 2012 Series of six invited lectures on Scalar Curvature-type Equations, TIFR Centre for Applicable Mathematics, Bangalore, India (Nov. – Dec. 2012)

- Seminar of the program Conformal and Kähler Geometry, Henri Poincaré Institute, Paris, France (Nov. 14, 2012)
- Workshop on Recent Trends in Geometric and Nonlinear Analysis, Banff International Research Station, Canada (Aug. 7, 2012)
- PDE Seminar, University of Sydney, Australia (May 28, 2012)
- Workshop on Cocompact Imbeddings, Profile Decompositions and their Applications to PDE, TIFR Centre for Applicable Mathematics, Bangalore, India (Jan. 6, 2012)
- 2011 Differential Geometry Seminar, Élie Cartan Institute, Henri Poincaré University, Nancy, France (Nov. 29, 2011)
- Workshop on Nonlinear Differential Equations, Pienza, Italy (Nov. 7, 2011)
- PDE Seminar, University of Sydney, Australia (May 9, 2011)
- PDE and Analysis Seminar, ANU Mathematical Sciences Institute, Canberra, Australia (Mar. 22, 2011)
- Nancy Geometric Days, Élie Cartan Institute, Henri Poincaré University, Nancy, France (Jan. 18, 2011)
- 2010 Analysis Seminar, Sapienza University of Rome, Italy (Nov. 8, 2010)
- Spectral Theory and Geometry Seminar, Fourier Institute, Joseph Fourier University, Grenoble, France (Oct. 14, 2010)
- Joint Regional Seminar on Geometric Analysis, CIRM, Marseille, France (Sept. 24, 2010)
- PDE Seminar, Brown University, Providence, US (Apr. 30, 2010)
- 2009 Analysis Seminar, McGill University, Montreal, Canada (Jul. 13, 2009)
- Conference in Geometric and Nonlinear Analysis, University of Cergy-Pontoise, France (May 26, 2009)
- AGM-LAGA Meeting, University Paris 13, France (Apr. 6, 2009)
- PDE Seminar, University of Rouen, France (Mar. 26, 2009)
- Conference on the Geometric Aspects of PDEs, CIRM, Marseille, France (Mar. 2, 2009)
- PDE Seminar, Brown University, Providence, US (Feb. 20, 2009)
- 2008 Geometry and Analysis Seminar, University of Nice Sophia Antipolis, France (Apr. 3, 2008)
- 2007 PDE Seminar, Sapienza University of Rome, Italy (Nov. 22, 2007)
- PDE and Applications Seminar, University of Poitiers, France (Oct. 25, 2007)
- MIA Laboratory Seminar, University of La Rochelle, France (Mar. 14, 2007)

Organization of Workshops and Seminars

Since 2015 Co-organizer of the Geometric Analysis seminar, McGill University

- 2024 Co-organizer of the CRM Nirenberg Lectures in Geometric Analysis, CRM, Montreal
- 2024 Co-organizer of a workshop on Analysis of Geometric Singularities, CRM, Montreal (May 13 – 17, 2024)
- 2021 Co-organizer of the workshop on Nonlinear Potential Theoretic Methods in Partial Differential Equations, Banff International Research Station, Banff Centre, Canada (online, Sept. 6 – 10, 2021)
- Co-organizer of the Nonlinear Analysis on Manifolds session at the Canadian Mathematical Society 75th Anniversary Summer Meeting, University of Ottawa (online, June 7 – 11, 2021)
- 2018 Co-organizer of the Geometric and Nonlinear PDEs session at the 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Taipei, Taiwan (Jul. 5 – 6, 2018)
- Co-organizer of a workshop on Geometric Analysis, CRM, Montreal (Mar. 12 – 16, 2018)
- 2017 Co-organizer of the Nonlinear PDEs session at the Mathematical Congress of the Americas, McGill University (Jul. 25 – 26, 2017)
- 2014 Co-organizer of the Geometric Analysis Meeting in Nice, in honor of Professor Philippe Delanoë's 60th birthday, University of Nice Sophia Antipolis (Jun. 2 – 4, 2014)
- 2009 – 2013 Co-organizer of the Geometry and Analysis seminar, University of Nice Sophia Antipolis

Research Grants

- 2022 – 2027 NSERC Discovery Grant awarded for the project: Analysis and applications of nonlinear problems with lack of compactness; \$21K per year awarded for a period of five years
- 2016 – 2022 NSERC Discovery Grant awarded for the project: Existence and Non-existence of Blowing-up Solutions for Nonlinear Elliptic Equations Arising in Physics and Geometry; \$18K per year awarded for a period of five years, extended by one year
- 2015 – 2018 McGill University Start-up Fund: \$40K awarded for a period of three years
- 2009 – 2012 ANR-Blanc Grant awarded for the project: Concentration Phenomena in Geometric Analysis; €150K awarded to seven researchers from different French universities for a period of three years. This project was coordinated by Emmanuel Hebey and Frank Pacard.

Postdoctoral Mentoring

- 2022 – 2024 Joshua Flynn, McGill University
- 2018 – 2019 Saikat Mazumdar, McGill University
- 2016 – 2018 Rohit Jain, McGill University

PhD Students Supervision

2020 – Edward Chernysh, McGill University
 2017 – 2022 Vladimir Sicca Gonçalves, McGill University
 2015 – 2019 Shaodong Wang, McGill University

Master's Students Supervision

2024 – Hugh Johnston, McGill University
 2022 – 2024 Samuel Zeitler, McGill University
 Summer 2023 Julien Guerin, ENS Paris-Saclay (3-month research internship)
 2020 – 2022 Marc-Andrew Lavigne, McGill University
 2018 – 2020 Edward Chernysh, McGill University
 2017 – 2020 Hilton Maurer, McGill University
 Summer 2016 David Michel, ENS Rennes (3-month research internship)

Undergraduate and Pre-university Students Supervision
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Summer 2024 Connor Campbell, McGill University
 Summers 2023 and 2024 Simon Chen, McGill University
 Summer and fall 2022 Zehai Wen, McGill University
 Winter and summer 2021 Yuxiu Zhang, McGill University
 Winter 2020 Jack Richter-Powell, McGill University
 Fall 2019 Daniela Breitman, McGill University
 Summer 2019 Lydia Mezrag, McGill University
 Summer 2019 Huangchen Zhou, McGill University
 Winter 2019 Sia Ham and Yanting Zhou, Marianopolis College
 Fall 2018 Julian Osorio, McGill University
 Summers 2017 and 2018 Samuel Desrochers, McGill University
 Summers 2016 and 2017 Edward Chernysh, McGill University

Graduate Students Evaluation

2024 Member of the PhD thesis committee for Mehrdad Najafpour, Department of Mathematics, Université du Québec à Montreal (Oct. 2024)
 2024 Examiner for the master's thesis of Mike Huang, Department of Mathematics and Statistics, McGill University (Jun. 2024)
 2023 Examiner for the PhD thesis of Ramya Dutta, Tata Institute of Fundamental Research (TIFR), Bangalore, India (Sept. 2023)
 Examiner for the master's thesis of Huangchen Zhou, Department of Mathematics and Statistics, McGill University (Mar. 2023)

- 2021 Chair and Examiner for the PhD thesis of Hussein Mesmar, Élie Cartan Institute, University of Lorraine, Nancy, France (Dec. 2021)
Examiner for the PhD thesis of Fengrui Yang, Department of Mathematics and Statistics, McGill University (Apr. 2021)
- 2020 Examiner for the master's thesis of Bartosz Syroka, Department of Mathematics and Statistics, McGill University (Sept. 2020)
Examiner for the master's thesis of Peter Yuen, Department of Mathematics and Statistics, McGill University (Mar. 2020)
- 2019 Member of the PhD thesis committee for Mahdi Ammar, Department of Mathematics, Université du Québec à Montreal (Jun. 2019)
- 2018 Examiner for the PhD thesis of Mikhail Karpukhin, Department of Mathematics and Statistics, McGill University (May 2018)
Examiner for the PhD thesis of Janine Bachrachas, Department of Mathematics and Statistics, McGill University (Jun. 2018)
- 2015 Member of the PhD thesis committee for Alexandra Tchong, Department of Mathematics and Statistics, McGill University (Sept. 2015)

Service Activities at the Department of Mathematics and Statistics of McGill University
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- 2022 – Graduate Program Director
- 2019 – 2021 Member of the Committee on Undergraduate Affairs
- 2017 – 2019 Member of the Committee on Graduate Affairs
- 2017 – 2018 Chair of the PhD preliminary oral examinations
- 2016 – 2018 Member of the Nominating and Procedures Committee
- 2015 – 2017 Member of the Committee on Undergraduate Affairs

Other Service Activities at McGill University
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- 2023 – Member of the Council of Graduate and Postdoctoral Studies
- 2020 – 2023 Disciplinary Officer, Faculty of Science

Refereeing Activities

- **Referee for international journals, including the following:** Advances in Calculus of Variations, Advanced Nonlinear Studies, Advances in Differential Equations, Advances in Nonlinear Analysis, Advances in Mathematics, Analysis & PDE, Annales de l'Institut Henri Poincaré, Annali della Scuola Normale Superiore di Pisa, Annali di Matematica Pura ed Applicata, Calculus of Variations and Partial Differential Equations, Canadian Journal of Mathematics, Communications in Contemporary Mathematics, Communications on Pure and Applied Analysis, Complex Variables and Elliptic Equations, Differential Equations & Applications, Differential Geometry and its Applications, Discrete and Continuous Dynamical Systems, Duke Mathematical

Journal, Indiana University Mathematics Journal, International Mathematics Research Notices, Journal de Mathématiques Pures et Appliquées, Journal für die reine und angewandte Mathematik Journal of Differential Equations, Journal of Functional Analysis, Journal of Geometric Analysis, Journal of Mathematical Analysis and Applications, Journal of Nonlinear Science, Journal of the European Mathematical Society, Journal of the London Mathematical Society, Mathematical Methods in the Applied Sciences, Mathematische Annalen, Nonlinear Analysis: Theory, Methods & Applications, Nonlinear Differential Equations and Applications, Pacific Journal of Mathematics, Potential Analysis, Proceedings of the American Mathematical Society, Proceedings of the Edinburgh Mathematical Society, Publications Mathématiques de l'IHÉS, Pure and Applied Mathematics Quarterly, SIAM Journal on Mathematical Analysis, Transactions of the American Mathematical Society, Tunisian Journal of Mathematics

- **Referee for grant applications to the following organizations:** Canadian Natural Sciences and Engineering Research Council (NSERC), Chilean National Science and Technology Commission (CONICYT), Sapienza University of Rome

Teaching Experience

At McGill University

Winter 2025 MATH 255: Honours Analysis 2
 Fall 2024 MATH 580: Advanced PDE 1 (graduate level)
 Fall 2023 MATH 580: Advanced PDE 1 (graduate level)
 Fall 2023 MATH 454: Honours Analysis 3
 Fall 2022 MATH 564: Advanced Real Analysis 1 (graduate level)
 Winter 2022 MATH 455: Honours Analysis 4
 Winter 2021 MATH 222: Calculus 3
 Fall 2020 MATH 454: Honours Analysis 3
 Fall 2020 MATH 264: Advanced Calculus for Engineers
 Fall 2019 MATH 242: Analysis 1
 Fall 2019 MATH 454: Honours Analysis 3
 Winter 2019 MATH 455: Honours Analysis 4
 Winter 2019 MATH 249: Honours Complex Variables
 Fall 2018 MATH 242: Analysis 1
 Winter 2018 MATH 455: Honours Analysis 4
 Fall 2017 MATH 242: Analysis 1
 Fall 2016 MATH 580: Advanced PDE 1 (graduate level)
 Fall 2016 MATH 254: Honours Analysis 1
 Winter 2016 MATH 249: Honours Complex Variables
 Fall 2015 MATH 580: Advanced PDE 1 (graduate level)

At the University of Nice Sophia Antipolis

- Winter 2015 Applied Quantitative Techniques (main lectures and class work sessions)
Winter 2015 Mathematical Modelling (main lectures and class work sessions)
Winter 2014 Applied Quantitative Techniques (main lectures and class work sessions)
Fall 2013 Differential Calculus (class work sessions)
Winter 2013 Applied Quantitative Techniques (main lectures and class work sessions)
Winter 2012 Applied Quantitative Techniques (main lectures and class work sessions)
Fall 2011 Analysis (main lectures and class work sessions)
Fall 2010 Analysis (main lectures and class work sessions)
Fall 2010 Statistics (class work sessions)
Fall 2009 Analysis (main lectures and class work sessions)
Fall 2009 Statistics (class work sessions)

At the University of Cergy-Pontoise

- Fall 2008 Variational Methods (class work sessions)
Fall 2008 Analysis in \mathbb{R}^n (class work sessions)
2005 to 2008 Mathematics for Sciences (class work sessions)