

DAVIDE BARILARI

PERSONAL INFORMATION

Born in Cattolica (RN), Italy - 07 November 1984

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WORK EXPERIENCE

<i>Present position</i>	2023 –	Professore Ordinario, UNIVERSITÀ DI PADOVA
		From 01 Feb 2023: Full Professor at Università degli Studi di Padova, Dipartimento di Matematica “Tullio Levi-Civita” (SSD MAT/05)
<i>Previous positions</i>	2020 – 2023	Professore Associato, UNIVERSITÀ DI PADOVA
		From 01 Sept 2020: Associate Professor at Università degli Studi di Padova, Dipartimento di Matematica “Tullio Levi-Civita” (SSD MAT/05)
	2013 – 2020	Maître de Conférence, UNIVERSITÉ DE PARIS CITÉ
		From 01 Sept 2013: Assistant Professor at Université de Paris Cité (ex Paris 7). Laboratoire: Institut de Mathématiques de Jussieu - Paris Rive Gauche. Teams: Analyse Fonctionnelle & Géométrie et Dynamique
<i>PostDoc</i>	2011 – 2013	ERC-CNRS Postdoc, ÉCOLE POLYTECHNIQUE
		ERC-CNRS PostDoc at CMAP, École Polytechnique, Paris - équipe INRIA GECO. Supervisor: Ugo Boscain - Project ERC StG 2009 “GeCoMethods”

EDUCATION

<i>Ph.D.</i>	2008 – 2011	SISSA, Trieste, Italy
		Ph.D. in Mathematics, SISSA, Trieste, defended on Oct 27, 2011 Supervisor: Andrei Agrachev
<i>Master’s degree</i>	2006 – 2008	Università di Trieste & SISSA, Italy
		Master’s Degree in Mathematics, Università degli Studi di Trieste, Jul 18, 2008. Diploma Percorso Formativo Comune, SISSA, Trieste. 110/110 cum laude.
<i>Bachelor’s degree</i>	2003 – 2006	Università di Bologna, Italy
		Bachelor’s Degree in Mathematics, Jul 21, 2006 – 110/110 cum laude.

FELLOWSHIPS AND AWARDS

2014 – 2022	Prime d’Encadrement Doctoral et de Recherche (PEDR) 2014-18 & 2018-22.
2012	SISSA “Lutman Prize” for the Best Ph.D. Thesis in Mathematics

MAIN RESEARCH INTERESTS

Riemannian and Sub-Riemannian Geometry, Geometric Control Theory, Hamiltonian systems, Hypoelliptic PDEs, Curvature, Optimal Transport.

MONOGRAPHS AND BOOKS

1. A. Agrachev, D. Barilari and U. Boscain, *A Comprehensive Introduction to sub-Riemannian geometry*, Cambridge Studies in Advanced Mathematics, Cambridge University Press, 2019, xviii+764 pp.

2. A. Agrachev, D. Barilari and L. Rizzi, *Curvature: a variational approach*. Memoirs of the AMS, 256 (2018), no. 1225, vi+142 pp.
3. A. Agrachev, D. Barilari and U. Boscain, *Introduction to geodesics in sub-Riemannian geometry*, in "Geometry, Analysis and Dynamics in sub-Riemannian manifolds", vol. II, 1-83, EMS Lecture Notes series (2016)

ACCEPTED PAPERS

4. *On the Hausdorff volume in sub-Riemannian geometry* (with A. Agrachev and U. Boscain). Calculus of Variations and PDE, 43 (2012), no. 3-4, 355-388.
5. *Sub-Riemannian structures on 3D Lie groups* (with A. Agrachev). Journal of Dynamical and Control Systems (2012), v.18, 21-44.
6. *Trace heat kernel asymptotics in 3D contact sub-Riemannian geometry*. Journal of Mathematical Sciences, 195 (2013), no. 3, 391-411.
7. *On 2-step, corank 2 sub-Riemannian metrics* (with U. Boscain and J.P. Gauthier). SIAM, Journal of Control and Optimization, 50 (2012), no. 1, 559-582.
8. *Small time asymptotics for heat kernel at the sub-Riemannian cut locus* (with U. Boscain and R.W. Neel). Journal of Differential Geometry, 92 (2012), no.3, 373-416.
9. *Small time heat kernel asymptotics at cut-conjugate points on 2-spheres of revolution* (with J. Jendrej). Ann. Inst. Henri Poincaré-Anal. Non Linéaire 31 (2014), pp. 281-295.
10. *A formula for Popp's volume in sub-Riemannian geometry* (with L. Rizzi). Analysis and Geometry in Metric Spaces, 1 (2014), 42-57.
11. *Comparison theorems for conjugate points in sub-Riemannian geometry* (with L. Rizzi). ESAIM: COCV v.22, n.2 (2016) 439-472.
12. *Sub-Riemannian curvature in contact geometry* (with A. Agrachev, L. Rizzi). The Journal of Geometric Analysis (2017) 27: 366-408.
13. *On the heat diffusion at the cut locus for generic Riemannian and sub-Riemannian structures* (with U.Boscain, G.Charlot and R.Neel). Int Math Res Notices (2017) 15: 4639-4672.
14. *Sub-Finsler geometry from the time-optimal control viewpoint for some nilpotent distributions* (with U. Boscain, E. Le Donne and M. Sigalotti). J. Dynamical and Control Systems (2017) 23: 547-575.
15. *On Jacobi fields and canonical connection in sub-Riemannian geometry* (with L. Rizzi). Archivum Mathematicum, 53 (2017), 77-92.
16. *Curvature terms in small time heat kernel expansion for a model class of hypoelliptic Hörmander operators* (with E. Paoli). Nonlinear Analysis, 164 (2017) 118-134.
17. *Heat kernel asymptotics on sub-Riemannian manifolds with symmetries and applications to the bi-Heisenberg group* (with U. Boscain and R.W. Neel). Annales Faculté Sciences Toulouse, accepted.
18. *Sharp measure contraction exponent for generalized H-type groups* (with L. Rizzi). Communications in Contemporary Mathematics, 20 (2018), no. 06, 1750081.
19. *On the points of smoothness of the value function for affine optimal control problems* (with F. Boarotto). SIAM, Journal of Control and Optimization, 56 (2018), no. 2, 649-671.
20. *Kolmogorov-Fokker-Planck operators in dimension two: heat kernel and curvature* (with F. Boarotto), Journal of Evolution Equations, 18 (2018), no. 3, 1115-1146.
21. *Volume geodesic distortion and Ricci curvature for Hamiltonian dynamics* (with A. Agrachev and E. Paoli). Annales de l'Institut Fourier, 69 (2019) no. 3, 1187-1228.
22. *Sub-Riemannian interpolation inequalities* (with L. Rizzi). Inventiones Mathematicae, 215 (2019), no 3, 977-1038.
23. *On the regularity of abnormal minimizers for rank 2 sub-Riemannian structures* (with Y. Chitour, F. Jean, D. Prandi, M. Sigalotti). Journal of Mathématiques Pures et Appliquées, online (2019).
24. *Volume of small balls and sub-Riemannian curvature in 3D contact manifolds* (with I. Beschastnyi, A. Lerario). Journal of Symplectic Geometry, 18 (2020), no. 2.

25. *A Bonnet-Myers theorem for quaternionic contact structures* (with S. Ivanov). *Calculus of Variations and PDE*, (2019) 58: 37.
26. *Bakry-Émery curvature and model spaces in sub-Riemannian geometry* (with L. Rizzi). *Mathematische Annalen*, 377 (2020), 435–482.
27. *On the geodesic curvature in 3D contact sub-Riemannian geometry* (with M. Kohli). *Advances in Calculus of Variations*, to appear.
28. *Strichartz estimates and Fourier restriction theorems in the Heisenberg group* (with H. Bahouri and I. Gallagher). *Journal of Fourier Analysis and Applications*, 27, 21 (2021).
29. *Stochastic processes on surfaces in 3D contact sub-Riemannian manifolds* (with U. Boscain, D. Cannarsa, K. Habermann). *Annales IHP Probabilité et Statistiques*, to appear.
30. *On the induced geometry on surfaces in 3D contact sub-Riemannian manifolds* (with U. Boscain, D. Cannarsa). *ESIAM COCV*, to appear

SUBMITTED PAPERS AND PREPRINTS

31. *Spectral summability for the quartic oscillator with applications to the Engel group* (with H. Bahouri, I. Gallagher, M. Léautaud). 49 pages. Preprint.
32. *Intrinsic sub-Laplacian for hypersurface in a contact sub-Riemannian manifold* (with K. Habermann). 24 pages. Preprint.
33. *Unified synthetic Ricci curvature lower bounds for Riemannian and sub-Riemannian structures* (with A. Mondino, L. Rizzi). 148 pages. Preprint.
34. *Steiner and Half-Tube formulas in 3D contact sub-Riemannian geometry* (with T. Bossio). 31 pages. Preprint.

RESEARCH TEAMS, GRANTS AND PROJECTS

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|-------------|---|
| 2022-24 | PI. of Italian STARS@UNIPD project NewSRG “New Directions in sub-Riemannian geometry”. (140k€, 24 months) |
| 2017 – 2019 | Member of the French-Chinese “COSTAGE” CNRS-NSFC project 271392 “Maximum Principle and Sensitivity Relations in Stochastic Optimal Control” (P.I. Helene Frankowska), Ref. PRC1451. |
| 2015 – 2020 | Member of the ANR project SRGI “Sub-Riemannian geometry and interactions” (P.I. Emmanuel Trélat) Contract number ANR-15-CE40-0018 |

INVITED (MINI)-COURSES AND COLLOQUIUMS

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| 2021 | A Topological Theory of Tangent Distributions, Leiden, Sept 2021.
“Sub-Riemannian curvature in 3D contact manifolds” (2 lectures) |
| | Scuola Galileiana and PhD in Mathematics, Padova, March 2021.
“Topics in sub-Riemannian Geometry” (7 lectures) |
| 2019 | Journées de rentrée, Fondation Hadamard, IHES, Sept 2019.
“The geometry of the Heisenberg group” (3 lectures) |
| 2016 | Mathematics-Physics Colloquium, Leibniz Universität Hannover, Oct 2016.
“From thermodynamics to image reconstruction: an invitation to SR geometry” |
| 2015 | Mathematical Sciences Colloquium, Florida Atlantic University, Sept 2015.
“The geometry of the isoperimetric problem and beyond” |
| | Rencontres Mathématiques de Rouen, Rouen, June 2015.
Minicourse on “Introduction to geodesics in sub-Riemannian geometry” (2 lectures) |

INVITED TALKS IN CONFERENCES (RECENT)

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| 2023 | Banff “Geometry and Topology in Control System Design”, Canada, June 2023 |
| 2022 | Workshop on Geometry and Dynamics, Heidelberg, Oct 2022 |
| | SR Geometry and Interactions, AMS-SMF-EMS Meeting, Grenoble, Jul 2022. |
| | Differential Geometry in Aveiro, Aveiro, Portugal, May 2022. |

- 2021 Stochastic Differential Geometry and Mathematical Physics, Rennes, Jun 2021.
Variational and PDE problems in Geometric Analysis, III, Bologna, May 2021.
- 2020 Workshop "Geometry and Analysis in Control Theory", Padova, Apr 2020.
Dispersive and subelliptic PDEs, Centro Ennio De Giorgi, Pisa, Feb 2020.
- 2019 New trends in Hamilton-Jacobi: PDE, Control and Geometry, Shanghai, Jul 2019.
AMS meeting "SR and CR geometric analysis", Connecticut, USA, Apr 2019.
Sub-Riemannian Geometry and Beyond, II, Jyväskylä, Finland, Feb 2019.
- 2018 Analysis, Control and Inverse Problems for PDE, Napoli, Italy, Nov 2018.
Analysis and PDEs, Hannover, Germany, Oct 2018.
Riemannian Geometry and Generalized Functions, Paris, Oct 2018.
The Cut Locus 2018, Sapporo, Japan, Sept 2018.
Workshop in sub-Riemannian geometry and Topolò(gy), Topolò, Italy, Jun 2018.
New trends in Control of Evolution Equations, GSSI, L'Aquila, Italy, Apr 2018.
- 2017 Mathematical Control Theory, Porquerolles, France, Jun 2017.
- 2016 New trends in semiclassical analysis, Domaine de Chalès, France, Dec 2016.
Singular phenomena and singular geometry, Pisa, Italy, Oct 2016.
Geometric Analysis in Control & Vision, Bergen-Voss, Norway, May 2016.
Three days in evolution PDE's, Salerno, Italy, April 2016
- 2015 Geometry and Optimal Transportation, Montpellier, France, June 2015.

INVITED SEMINARS (RECENT)

- 2023 "PDE and Math Phys Seminar", Univ Bordeaux, Apr 2023.
- 2022 "Geometric Structures Seminar", SISSA, Trieste, Apr 2022.
Online "Geometry Lunch Seminar", Penn State Univ, Feb 2022.
- 2021 Online "Analysis and Differential Geometry Seminar", Aveiro Univ., Apr 2021.
Online "Symplectic geometry seminar", Heidelberg University, Feb 2021
- 2020 Online Seminar at Nanjing University, China, Dec 2020.
Online "Geometric Control Seminar", Moscow University, Russia, May 2020.
Séminaire "Géométrie, Dynamique, Topologie", Univ. Aix-Marseille, Jan 2020.
Oberseminar "Geometrie, Topologie und Analysis", Koln University, Jan 2020
Séminaire "EDP-Analyse", Univ. Lyon 1, Jan 2020.
- 2019 Séminaire "Géométrie et Topologie", Sorbonne Université, Dec 2019.
Analysis Seminar, WPI, Worchester, USA, Apr 2019.
GdT Contrôle du LJLL, Sorbonne Université, Mar 2019.
- 2018 Seminar of Mathematics, Università di Padova, Oct 2018.
CalVa Seminar Paris, Université Paris Dauphine, Mar 2018.
- 2017 Analysis Seminar, SISSA, Nov 2017.
Analysis Seminar, Warwick University, Oct 2017.
Mathematics Seminar, Sichuan University, Chengdu, China, Oct 2017.
Séminaire d'Analyse Fonctionnelle, UMPC, Paris, June 2017.
Seminar of Mathematics, NUI Galway, Ireland, May 2017.
- 2016 Journée "Autour du laplacien sous-Riemannien", Grenoble, Oct 2016.
Séminaire LSIS, Toulon, Sept 2016.
Geometry and Control seminar, SISSA, July 2016.
Séminaire de géométrie, Université Paris Diderot, France, Jun 2016.
Séminaire de Géométrie Hamiltonienne, University Paris 6, Feb 2016.
- 2015 Analysis and Applications seminar, Florida Atlantic University, Sep 2015.

Séminaire de Géométrie, Université de Tours, May 2015.

Seminario di Analisi Matematica “Bruno Pini”, Università di Bologna, Feb 2015.

ORGANIZATION OF SCIENTIFIC EVENTS

- 2023 Organizer of the Oberwolfach “Hypoelliptic operators in Geometry” (with X.Ma, N.Savale, Y.Wang), May, 2023, Oberwolfach.
Website: https://www.mfo.de/occasion/2321/www_view
- Organizer of the conference “Geometry and Control in Florence” (with U. Boscain, D. Prandi, L.Rizzi, M. Sigalotti), March, 2023, Florence.
Website: <https://indico.math.cnrs.fr/event/7106/>
- 2022 Member of the organizing committee of the centenary UMI conference “100UMI-800UNIPD”, May 23-27, 2022, Padova. Website: <https://www.100umi800unipd.it/>
- Organizer of the “Control Days 2022” (with V. Franceschi, F. Rossi), Sept 21-22, 2022, Padova. Website: <https://events.math.unipd.it/controldays2022/>
- 2021 Organizer of the conference “PaPa Padua Paris Seminar” (with V. Franceschi, R. Monti, M. Sigalotti), Sept 6-7, 2021, Padova.
Web: sites.google.com/site/franceschivale/workshops-seminars/papa
- 2020 Organizer of the conference “Sub-Riemannian Geometry and Interactions” (with U. Boscain, Y. Chitour, D. Prandi, E. Trélat, L.Rizzi.), Sept 7-11, 2020, Paris.
Website: www.ljll.math.upmc.fr/~trelat/SRGI/SRGI_conference.html
- 2012 – 2020 Organizer of the “Séminaire de géométrie sous-riemannienne” at IHP, Paris till 2019, at LJLL, Sorbonne Université in 2020
webusers.imj-prg.fr/~davide.barilari/seminar.php
- 2017 Organizer of the “Sub-Riemannian Days 2017” (with G.Charlot, Y.Colin de Verdière, H.Pajot, L.Rizzi.), Oct 17-18, 2017, IF, Grenoble.
Website: <https://journées-sr2017.sciencesconf.org/>
- 2017 Organizer of conference “From students to mathematicians: an excellence Master program in Trieste” (with U.Bruzzo, G.Dal Maso, D.Del Santo, F.Fanelli, A.Lerario, E.Mezzetti, F.Sala), June 14-16, 2017, UniTS/SISSA, Trieste.
Website: <http://math.univ-lyon1.fr/~fanelli/PFC/pfc.conf.html>
- 2014 Organizer of the “IHP Trimester on Geometry, Analysis and Dynamics on sub-Riemannian manifolds” (with. A. Agrachev, U. Boscain, M. Sigalotti, F. Jean, L. Rifford, Y. Chitour), Paris, Sept 1-Dec 14, 2014.
Website: <http://www.cmap.polytechnique.fr/subriemannian/>
- 2014 Member of the Program Committee of the “International Youth Conference Geometry & Control”, Moscow, 14-18 Apr, 2014.
Website: <http://gc2014.mi.ras.ru/index.e.html>
- 2012 Organizer of the “INDAM Meeting on Geometric Control and Sub-Riemannian Geometry”, Cortona, May 2012. (with U. Boscain, D. Prandi, A. Sarychev, M. Sigalotti, G. Stefani)
Website: <http://www.cmap.polytechnique.fr/geometric-control-srg/>

GRADUATE SUPERVISION ACTIVITY

- 2022 – now Eugenio Pozzoli, PostDoc STARS@UNIPD, Università degli Studi di Padova.
- 2020 – now Tania Bossio, PhD Thesis, Università degli Studi di Padova.
- 2018 – 2021 Daniele Cannarsa, PhD Thesis “MathInnov”, Université Paris Diderot. (co-advised with Ugo Boscain 50%)
- 2016 – 2019 Mathieu Kohli, PhD Thesis, Université Paris Saclay.
“On geodesic curvature in sub-Riemannian geometry”.
- 2016/17 Francesco Boarotto, PostDoc contract, Université Paris Saclay, from Sept 2016. (co-advised with Ugo Boscain 50%)

UNDERGRADUATE SUPERVISION ACTIVITY

- M2 Lucia Tessarolo, Laurea Magistrale, Università di Padova Jul 2023.

- "TBA".
- M2 Marco Condini, Laurea Magistrale, Università di Padova Dec 2022.
"A generalized curvature-dimension inequality in sub-Riemannian manifolds".
- M2 Alessandro Minuzzo, Laurea Magistrale, Università di Padova Jan-Jul 2022.
"Magnetic fields and SR geodesics". (co-supervised with Valentina Franceschi)
- M2 Hyppolite Charvin, Stage M2, Université Paris Diderot, Feb-Jun 2020.
"Hallucinations and visual cortex". (co-supervised with Dario Prandi)
- M2 Daniele Cannarsa, Stage M2, Université Paris Diderot, Feb-Jun 2018.
"Intrinsic geometry of surfaces in the Heisenberg group".
- M2 Mathieu Kohli, Stage M2, Université Paris Sud, Feb-Jun 2016.
"Géométrie sous-riemannienne et courbure du groupe de bi-Heisenberg".
- M1 Maxime Moscatelli, Stage M1, ENS Rennes & UNIPD, May-Jul 2022.
"Bicycling on the sphere and sub-Riemannian geometry on $SO(3)$ ".
- M1 Jacek Jendrej, Stage M1, École Polytechnique, Apr-Jul 2012.
Prize for Best Research Stage - Ecole Polytechnique, Promotion 2009
"Small time heat kernel asymptotics at a cut-conjugate point on 2-spheres of revolution".
- L3 Gioele Benetton, Laurea Triennale, Università di Padova, 2023.
"TBA".
- L3 Anna Donadini, Laurea Triennale, Università di Padova, 2021.
"Su un teorema di rigidità per punti coniugati su superfici".
- L3 Nicolas Biscondi et Louet, Stage L3, Université Paris Diderot, Feb-Jun 2018.
"Comment on stabilise un pendul inversé?".
- L3 Ayoub Lasri, Stage L3, Université Paris Diderot, Feb-May 2015.
"Controlabilité et contrôle optimale".

PARTICIPATION IN JURY

- 2018 Jury member for the PhD thesis of Lorenzo Pinna
University Rome La Sapienza, Italy 26/01/2018.
- 2017 Referee and External examiner for the Master thesis of Stine Marie Eik
Bergen University, Norway 08/06/2017.
Referee and jury member for the PhD Thesis of Stefano Biagi
Università di Bologna, Italy 09/05/2017.
- 2015 Referee and jury member for the PhD Thesis of Pavel Silveira,
SISSA, Trieste, 26/10/2015.

PARTICIPATION IN HIRING/SELECTION COMMITTEES

- 2022 Member of the committee, "Ammissione PhD in Mathematics UNIPD".
Padova. June 2022
- 2021 Member of the committee, "Ammissione Laurea Magistrale SISSA".
SISSA. June 2021
- 2020 Member of a hiring committee, "RTDA in Analisi Matematica".
Università dell'Aquila. March 2020
- 2018 Vice-président and member of the MCF hiring committee, "Analyse et EDP".
Université Paris Diderot. May 2018
- 2017 Vice-président and member of the MCF hiring committee, "Géométrie et
Dynamique". Université Paris Diderot. May 2017
- 2015 Member of the MCF hiring committee, "Géométrie et Dynamique".
Université Paris Diderot. May 2015

ADMINISTRATIVE SERVICE

- 2021 – now Member of the "Commissione Social Media"
Math Department - Università di Padova.
- 2021 Member of the "Commissione Valutazione Progetti e Assegni"
Math Department - Università di Padova.

- 2021 – now Member of the “Commissione Biblioteca”
Math Department - Università di Padova.
- 2019 – now Member of the “Collegio Docenti Dottorato in Matematica”
Math Department - Università di Padova.
- 2016-2019 Member of the “Commission Pédagogique” of UFR Math
Université Paris Diderot - Paris 7.
- 2016-2019 Member of the “Comité de Prospective et Recrutement” of IMJ-PRG
Université Paris Diderot - Paris 7
- 2015-2019 Elected member of the “Conseil Scientifique” of UFR Math
Université Paris Diderot - Paris 7.

EDITORIAL ACTIVITY

- 2022 Associate Editor of
ESAIM COCV : Control, Optimization and Calculus of Variations
- 2011 – now Referee activity for 3 books (Springer and Birkäuser) and referee for more than
30 international journals (JAMS - Invent. Math. - Adv. in Math - JDG - JGEA -
CPAM - Annales ENS - Annali SNS - Math. Z - JDEQ - JIMJ - JMPA - Trans
AMS - JGP - Proc AMS etc.)

TEACHING AT UNIVERSITÀ DEGLI STUDI DI PADOVA

- 2020 – now Topics in sub-Riemannian geometry, Scuola Galileiana & PhD (15h, 2021)
Differential Geometry, LM-Math (64h, 2020, 2021, 2022)
Analisi Matematica 1, LT-Info (64h, 2020), LT-Phys (64h, 2021, 2022)

TEACHING AT UNIVERSITÉ PARIS DIDEROT

- 2013 – 20 Introduction à la géométrie sous-riemannienne, M2Math (36h - 2018)
Équations Différentielles, L3Math (40 h - 2017, 2018, 2019)
Analyse Elementaire II, L1Math (81h - 2014, 2015, 2016)
Algèbre et Analyse Elementaire I, L1Math (56h - 2019)
Préparation à l’oral du CAPES (15h - 2017, 2018; 30h - 2019)
Équations Différentielles pour biologistes, L2Bio (50h - 2014, 2015, 2016)
Micro-économie de l’assurance, M2ISIFAR (45h - 2020)
(TD) Théorie de la mesure, Intégration, Séries de Fourier, L3Math (27h - 2020)
(TD) Géométrie Différentielle, M1Math (36 h - 2016, 2017, 2018)
(TD) Algèbre et Analyse Elementaire II, L1Info (54 h - 2019)
(TD) Équations Différentielles, L3Math (40 h - 2014, 2015, 2016)
(TD) Systèmes Dynamiques: Stabilité et Commande (at ENSTA, 12h - 2012)
Projets et Interrogations Orales, L1Math (24h - 2017, 2019)

POPULARIZATION ACTIVITY

- 2023 Istituto Veneto per le Scienze e Lettere, Aprile 2023
Una lezione+laboratorio per insegnanti di scuola media
- 2022 Co-Responsabile “Science for all”, Padova, Settembre 2022
Organizzazione generale + una lezione per pubblico di tutte le età
Spettacolo teatrale “Spaghetti e Levi-Civita”, Padova, Maggio 2022
Co-Organizzazione evento e supervisione scientifica per Dipartimento di
Matematica UNIPD e Teatro Boxer
- 2021 “VenetoNight”, Padova, Maggio 2021
Lezione per pubblico di tutte le età
- 2017 18e Salon “Salon Culture & Jeux Mathématiques”, Paris, 27-30/05/2017
Tenue du stand et exposé pour le publique
- 2016 Participation as Jury member to “Tournoi Français de Jeunes Mathématiciennes
et Mathématiciens”, Paris Ecole Centrale, Paris, 16/04/2016
Lecture “Il mestiere del matematico oggi”, Liceo Malpighi, Bologna,
02/03/2016

- 2015 Lecture "Cos'è una distanza? Dalla geometria Euclidea alla geometria sub-Riemanniana", Liceo Malpighi, Bologna, 10/11/2015
- 2014 Lecture "Pi greco: da Archimede a Riemann", Liceo Malpighi, Bologna, 04/06/2014
- 2011 Collaboration for "Notte dei Ricercatori" - SISSA, Trieste, 23/09/2011
- 2008-2011 Math Olympiads, Coppa Aurea - Training, Università degli Studi di Trieste
Preparation of problems and lectures to high school students.

February 6, 2023