

Felisia Angela Chiarello

Personal information

Nationality Italian
Date and place of birth 14 December 1992, Taranto (Italy)
Address Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica
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Academic positions

From September 2024 Assistant Professor (RTT) at Università degli Studi dell'Aquila, Italy.
From July 2022 Research fellow (RTDa) at Università degli Studi dell'Aquila, Italy.
February 2021-June 2022 Postdoctoral fellow at Politecnico di Torino, Italy. Title: 'Modelli cinetici per il traffico e la società'. Supervisor: Prof. Andrea Tosin.
January 2020-December 2020 Postdoctoral fellow at Politecnico di Torino, Italy. Title: 'Equazioni cinetiche e leggi di conservazione per la modellistica e la simulazione di sistemi multi-agente'. Supervisor: Prof. Andrea Tosin.

Education

2 May 2017- 6 December 2019 Ph.D. in Mathematics at Inria Sophia Antipolis - Méditerranée financed by Université Côte d'Azur, with European doctorate label. Thesis Title: 'Non-local conservation laws for traffic flow modeling'. Supervisor: Dr. Paola Goatin.
2014-2017 Master's degree in Mathematics, Università degli Studi di Bari (Italy). Final grade 110/110 cum laude with a thesis in Mathematical Analysis on 'Conservation laws and vanishing viscosity on network'; advisors Mcf. Carlotta Donadello (Université Franche-Comté), Prof. Giuseppe Maria Coclite, Prof. Mario Michele Coclite.
2011-2014 Bachelor's degree in Mathematics, Università degli Studi di Bari (Italy). Thesis in Mathematical Analysis on 'Abstract form of Cauchy-Kowalewski theorem'; advisors Prof. Enrico Jannelli, Dr. Giovanni Tagliatela.

Awards and qualifications

2 July 2024 Awarded the Italian National Scientific Habilitation (ASN) in Mathematical Analysis to be Associate Professor, period 02/07/2024-02/07/2035.

- 5 March 2024 Member of the European Mathematical Society Young Academy for the period 2024-2027.
- 6 Feb 2024 Awarded the Qualification to be Maître de Conférences in France. Section 25 Mathématiques.

Principal Investigator of research projects

- 1 **Principal investigator** for the GNAMPA project 2023 CUP E53C22001930001, financed by INDAM, entitled 'Equazioni iperboliche e applicazioni'
- 2 **Principal investigator** of the project 'Avvio alla Ricerca 2023', financed by Università degli Studi dell'Aquila, entitled 'Sistemi iperbolici: modelli di traffico veicolare e modelli idrodinamici di tipo flocking'.

Research groups and projects

- 1 Participation in PRIN 2020 - Project N. 20204NT8W4, 'Nonlinear evolution PDEs, fluid dynamics and transport equations: theoretical foundations and applications', unit of L'Aquila coordinated by Donatella Donatelli. Principal Investigator: Stefano Bianchini.
- 2 Universität Mannheim, Germany. Participation in the Project G01920/10-1 DFG 'Multiscale Control Concepts for Transport-Dominated Problems'. 2019-2022.
- 3 CI2MA-Universidad de Concepcion. Participation in the project AFB170001 of the PIA Program: Concurso Apoyo a Centros Científicos y Tecnológicos de Excelencia con Financiamiento Basal.
- 4 INRIA Sophia Antipolis - Méditerranée, Nice, France / University of Mannheim, Germany. Participation in the Project 'DAAD-PPP Frankreich: Non-local conservation laws for engineering applications' cofinanced by DAAD (Project-ID 57445223) and PHC Procope (Project no. 42503RM).
- 5 INRIA Sophia Antipolis - Méditerranée, Nice, France. Participation in the project: 'NOLOCO Efficient numerical schemes for non-local transport phenomena'. Link: <https://team.inria.fr/acumes/assoc-team/noloco/>

Grants

- 1 Valencia, GRANT ICIAM2019.
- 2 Financial support Hyp 2018, Penn State, USA. 'XVII International Conference on Hyperbolic Problems Theory, Numerics, Applications'.
- 3 GRANT DAAD German Academic Exchange Service, Universität Mannheim.
- 4 Oberwolfach Leibniz Graduate Student (OWLG) Grant. MFO, Oberwolfach Research Institute for Mathematics.
- 5 GRANT Erasmus+.

- 6 GRANT SMI (Scuola Matematica Interuniversitaria di Perugia), August 2016.

Research periods abroad

- April 7-13, 2024 Research period at University Warwick invited by Prof. Ewelina Zatorska.
- March 10-15, 2024 Research period at Universität Mannheim invited by Prof. Simone Göttlich.
- March 4-10, 2024 Research period at FAU Erlangen-Nürnberg invited by Prof. Alexander Keimer.
- Sept 2-9, 2023 Research period at FAU Erlangen-Nürnberg invited by Prof. Alexander Keimer, financed by the project 'progetto di Ateneo 2023 di Avvio alla ricerca' entitled 'Sistemi iperbolici: modelli di traffico veicolare e modelli idrodinamici di tipo flocking' and by GNAMPA project 2023 'Equazioni iperboliche e applicazioni'.
- May 2-19, 2023 Research period at University of Cyprus, invited by Prof. Cleopatra Christoforou, financed by the project 'progetto di Ateneo 2023 di Avvio alla ricerca' entitled 'Sistemi iperbolici: modelli di traffico veicolare e modelli idrodinamici di tipo flocking' and by GNAMPA project 2023 'Equazioni iperboliche e applicazioni'.
- 16 Mar 2022 - 26 Mar 2022 Research period at Universität Mannheim, Germany, financed by the DFG "Multiscale Control Concepts for Transport-Dominated Problems" project G01920/10-1.
- 6 Oct 2019 - 19 Oct 2019 Research period at Universität Mannheim, Germany, financed by the project "Non-local conservation laws for engineering applications" DAAD (Project-ID 57445223) e PHC Procope (Project no. 42503RM).
- March 2019-May 2019 Research period at Universität Mannheim, Germany. Grant promoted by the German Academic Exchange Service (DAAD) within the 'International Promovieren in Deutschland for all' (IPID4all) program.

Seminars on invitation

- June 6, 2024 Title: 'Nonlocal conservation laws with p -norm, the singular limit problem and applications in traffic flow'. University of Padova.
- March 12, 2024 Title: 'On the singular limit problem for a class of first order nonlocal lane-changing traffic flow models'. Universität. Mannheim, Germany.
- September 7, 2023 Title: 'Nonlocal conservation laws and applications to traffic flow'. Seminars. FAU Erlangen-Nürnberg. Erlangen, Germany.
- May 17, 2023 Title: 'Nonlocal conservation laws and applications to traffic flow.' Seminars. University of Cyprus.
- December 21, 2022 Title: 'Nonlocal traffic flow models.' New Faculty Seminars. University of L'Aquila.
- November 5, 2020. Title: 'Multiscale control of generic second order traffic models by driver-assist vehicles.' Ipam 2020 Junior Participant Seminar.

- October 8, 2020. Title: 'Multiscale control of generic second order traffic models by driver-assist vehicles.' Scientific Computing Research Seminar Universität Mannheim, Germany.
- September 29, 2020. Title: 'Multiscale control of generic second order traffic models by driver-assist vehicles.' CI2MA Seminars, Chile.
- November 14, 2019 Title: 'Non-local conservation laws for traffic flow modeling.' Seminar, Politecnico di Torino.
- March 14, 2019 Title: 'Non-local traffic flow models'. Ph.D. Seminar. Universität Mannheim, Germany.

Talks on invitation during Conferences and Workshops

- Sept 2-4, 2024 Meeting on Differential Equations in Ancona. Università Politecnica delle Marche, Italy. Talk: 'Nonlocal conservation laws with p -norm, the singular limit problem and applications in traffic flow.' (Invited talk).
- July 23-26, 2024 UMI-AMS Joint Meeting, Palermo, Italy. Titolo del talk: 'Nonlocal conservation laws with p -norm, the singular limit problem and applications in traffic flow'. (Invited speaker).
- April 17-18, 2024 Modeling, Control and Games through Partial Differential Equations. Università di Brescia, Italy. Titolo del talk: 'Nonlocal conservation laws with p -norm, the singular limit problem and applications in traffic flow'. (Invited speaker).
- 28 Aug-1 Sept 2023 SIMAI2023. Matera, Italy. Talk: 'Hydrodynamic traffic flow models including random accidents: A kinetic derivation.' (Invited Speaker).
- June 5-8, 2023 Workshop on Mathematical modeling, Analysis and Approximation of Vehicular and Pedestrian Dynamics . Tours, France. Talk: 'On the singular limit problem for a class of first order nonlocal lane-changing traffic flow models.' (Invited speaker)
- March 14-18, 2022 SIAM Conference on Analysis of Partial Differential Equations - Happening Virtually. Talk: 'Nonlocal reaction traffic flow model with on-off ramps.' (Invited speaker)
- Dec 15-17, 2021 Numerical aspects of hyperbolic balance laws and related problems-young research conference. Verona. Talk: 'A statistical mechanics approach to macroscopic limits of car-following traffic dynamics. ' (Invited speaker)
- Sept 27- Oct 01, 2021 DMV-ÖMG Annual Conference 2021. University of Passau. Talk: 'Micro-Macro limit of a non-local generalized Aw-Rascle type model. ' (Invited speaker)
- Sept 08-10, 2021 Indam Workshop: 'Present Recent Trends in Conservation Laws'. Rome. Talk: 'A Statistical Mechanics Approach to Macroscopic Limits of Car-Following Traffic Dynamics.' (Invited speaker)
- June 23-25, 2021 Program: Introduction to Mean Field Games and Applications. 'Crowd and Social Dynamics', IMSI, Chicago, USA. (Invited lecturer)

- December 21-22, 2020 Xmaths workshop 2020, Università degli Studi di Bari, Italy. Talk: 'Multiscale control of generic second order traffic models by driver-assist vehicles.' (Invited speaker)
- December 19-20, 2019 Xmaths workshop 2019, Università degli Studi di Bari, Italy. Talk: 'Non-local conservation laws for traffic flow modeling.' (Invited speaker)
- July 15-19, 2019 ICIAM 2019, Valencia, Spain. Talk: 'Non-local vehicular traffic flow models.' (Invited speaker)
- May 19-25, 2019 Nonlinear Hyperbolic Problems: modeling, analysis, and numerics, MFO Oberwolfach, Germany. Talk: 'Non-local traffic flow models.' (Invited speaker)
- September 10-12, 2018 Interactive workshop on hyperbolic equations. Università degli Studi di Ferrara, Italy. Talk: 'Non-local multi-class traffic flow models.' (Invited speaker)
- Dec 18, 2017 EDP e dintorni, III Meeting around PDE. Department of Mathematics, Università degli Studi di Bari. Talk: 'Global entropy weak solutions for general non-local traffic flow models with anisotropic kernel.' (Invited speaker).

Contributed talks and poster presentations

- June 10-14, 2024 The Equadiff Conference 2024. Karlstads Universitet, Sweden. Talk: 'On the singular limit problem for a class of first order nonlocal lane-changing traffic flow models.' (Contributed Talk).
- Sept 13-15, 2023 Energetic Methods for Multi-Component Reactive Mixtures Modelling, Stability, and Asymptotic Analysis. WIAS, Berlin, Germany. Talk: 'On the singular limit problem for a class of first order nonlocal lane-changing traffic flow models.' (Contributed Talk).
- June 20-25, 2022 HYP2022, XVIII International Conference on Hyperbolic Problems: Theory, Numerics and Applications. Málaga, Spain. Talk: 'Kinetic nonlocal description and macroscopic limits of car-following traffic dynamics.' (Contributed talk)
- October 1-5, 2018 Fall school Hyperbolic Conservation Laws and Mathematical Fluid Dynamics, Würzburg, Germany. Poster presentation, title: 'Non-local multi-class traffic flow models.'
- June 25-29, 2018 XVII International Conference on Hyperbolic Problems Theory, Numerics, Applications University Park, Pennsylvania, USA. Talk: 'General non-local traffic flow models.' (Contributed talk)
- February 26-27, 2018 Le Monde des Mathématiques Industrielles MOMI 2018, Sophia Antipolis, France. Poster presentation, title: 'Non-local traffic flow models.'

Other attended conferences

- June 19-24, 2023 International Conference on Partial Differential Equations and Applications in honor of the 70th birthday of Pierangelo Marcati.

- May 25-31, 2023 Meeting on Nonlinear Evolution PDEs, Fluid Dynamics and Transport Equations. Centre "Ettore Majorana" for Scientific Culture, Erice, Italy.
- July 13-15, 2022. 12th Meeting on Nonlinear evolution PDEs, fluid dynamics and transport equations. University of L'Aquila.
- Oct 01, 2021 Waiting for the BioTOMath Conference. On the occasion of Luigi Preziosi 60th birthday. Politecnico di Torino.
- February 5, 2020 Workshop on Kinetic Traffic Models and Numerical Methods. Conference on the occasion of Gabriella Puppo 60th birthday. University La Sapienza, Rome, Italy.
- July 29-August 2, 2019 12th ISAAC Congress, Aveiro, Portugal.
- February 25-26, 2019 Le Monde des Mathématiques Industrielles MOMI 2019, Sophia Antipolis, France.
- July 2-6, 2018 MicroLocal and Time-Frequency Analysis 2018. A Conference in honor of Luigi Rodino on occasion of his 70th Birthday. University of Turin.
- June 19-21, 2018 Summer school on DDM in Nice, 2018, Laboratoire Dieudonné.
- April 09-13, 2018 Course: Problemi matematici in teoria cinetica, Politecnico di Bari, Italy.
- Dec 20-21, 2017 Xmas Workshop 2017, Università degli Studi di Bari.
- Nov 22-23, 2017 Conference: The Finite volumes schemes and traffic modeling in Besançon, France.

Organization of scientific meetings

- July 15-19, 2024 Co-organization of EMYA Activities for the 9th European Congress of Mathematics (9ECM 2024), Sevilla, Spain.
- July 15-19, 2024 Co-organization of the Minisymposium 'Nonlocality in hyperbolic PDEs' for the 9th European Congress of Mathematics (9ECM 2024), Sevilla, Spain.
- August 28-September 1, 2023 Co-organization of the Minisymposium 'PDEs and Applications' for the SIMAI conference 2023.

PhD courses and committees

- A.A. 2024/2025 Course: 'Conservation laws and traffic flow modelling' in the PhD program Mathematics and Modeling; University of L'Aquila. Approved by the PhD Board on the 6th of February 2024. (10 hours)
- July 8-12, 2024 Blended Intensive Programs, L'Aquila, Italy. Titolo del talk: 'Different approaches for traffic flow modeling'. (1 hour).
- A.A. 2023/2024 Course: 'Conservation laws and traffic flow modelling' in the PhD program Mathematics and Modeling; University of L'Aquila. (10 hours)
- January 24, 2023 Internal Member in the committee for the evaluation of the PhD dissertation of Harold Deivi Contreras, University of Concepción

June 23-25, 2021 Program: Introduction to Mean Field Games and Applications. Mini-course 'Crowd and Social Dynamics', IMSI, Chicago, USA. Invited lecturer by Prof. Benedetto Piccoli. 1 hour of lecture and 1 hour of tutoring for students (2 hours).

Advisor of PhD students

- 1 Coadvisor of the PhD student Gianmarco Cipollone with a thesis on 'Nonlocal systems of conservation laws'. University of L'Aquila. From October 2023.
- 2 Coadvisor of the PhD Harold Deivi Contreras at Universidad de Concepción, who obtained the PhD title on the 24th of January 2023 with a thesis entitled 'Modelling and numerical analysis of nonlocal conservation laws with applications to sedimentation and traffic flow problems'. Internal member of the committee for the evaluation of dissertation.

Teaching experiences

- A.A. 2024/2025 Analisi matematica B/2- Bachelor of Science in Mathematics and Physics; Università degli Studi dell'Aquila. (45 hours)
- A.A. 2024/2025 Analisi matematica 2 - Bachelor of Science in Physics; Università degli Studi dell'Aquila. (15 hours)
- A.A. 2024/2025 Premaster course for the International Master Program. Differential Equations: Foundations; Università degli Studi dell'Aquila. Approved by the Department Council on the 7th of February 2024. (18 hours)
- A.A. 2023/2024 Analisi matematica B/2- Bachelor of Science in Mathematics and Physics; Università degli Studi dell'Aquila. (45 hours)
- A.A. 2023/2024 Analisi matematica 2 - Bachelor of Science in Physics; Università degli Studi dell'Aquila. (15 hours)
- A.A. 2022/2023 Analisi matematica B - Bachelor of Science in Mathematics; Università degli Studi dell'Aquila. (30 hours)
- A.A. 2022/2023 Introductory Real Analysis- International Master course in Mathematics; Università degli Studi dell'Aquila. (30 hours)
- A.A. 2021/2022 Analisi matematica II - computer engineering; Politecnico di Torino. (40 hours)
- A.A. 2021/2022 Atelier Città e Territorio F (Probabilità e statistica matematica)- Architecture; Politecnico di Torino. (20 hours)
- A.A. 2015/2016 Tutor for students enrolled in the first and second years of Bachelor's degree in Mathematics at University of Bari; Analisi matematica 1,2,3,4. Università degli Studi di Bari. (250 hours)

Advisor of Master students

- 1 First advisor of the graduating student of the Master degree course Daniel Morris at University of L'Aquila. Thesis entitled: 'On the nonlocal to local limit in traffic flow modelling: multi-lane case with convex kernel'. Discussion on the 15th of September 2023.
- 2 First advisor of the graduating student of the Master degree course Mustapha Abass at University of L'Aquila. Thesis in preparation entitled: 'Heat and wave equations'.

Other academic activities

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| Sept 27, 2024 | Organizer of the Mathematical Pop-up in the event 'Street Science 2024' by the University of L'Aquila. |
| July 24, 2022 | Member of the Bachelor's and Master's Degree Committee in Mathematics in July 2024 at the University of L'Aquila. |
| April 19, 2024 | Orientation day for high school students participating in the project 'Olimpiadi della matematica'. 1-hour lesson for students attending the fifth classes. |
| Sept 22-30, 2023 | Participation in the event 'Street Science 2023' organized by the University of L'Aquila and member of the committee of the competition for high schools 'Docenti per un giorno'. |
| October 22, 2022 | Member of the Master's Degree Committee in Mathematics and Mathematical Engineering in October 2022 at the University of L'Aquila. |

Peer Reviewer for international journals

Applied Mathematics and Computation
Applied Mathematics and Optimization
Computational and applied mathematics
Esaim:Mathematical Modelling and Numerical Analysis
Heliyon
ICIAM2019 SEMA SIMAI Springer Series
Journal of Hyperbolic Differential Equations
Mathematical Methods in the Applied Sciences
Networks & Heterogeneous Media
Nonlinearity
SIAM Journal on Applied Mathematics
Transactions on Intelligent Transportation Systems
Transportmetrica A: Transport Science
Zeitschrift für angewandte Mathematik und Physik

Journal articles

- 1 Felisia Angela Chiarello, Jan Friedrich, Simone Göttlich. A non-local traffic flow model for 1-to-1 junctions with buffer. *Networks and Heterogeneous Media*. Volume 19, Issue 1: 405-429, 2024.
- 2 Felisia Angela Chiarello, Alexander Keimer. On the singular limit problem in nonlocal balance laws: Applications to nonlocal lane-changing traffic flow models. Accepted for publication in *Journal of Mathematical Analysis and Applications* on the 24th of March 2024.
- 3 Felisia Angela Chiarello, Simone Göttlich, Thomas Schillinger, Andrea Tosin. Hydrodynamic traffic flow models including random accidents: A kinetic derivation. *Communications in Mathematical Sciences*. Volume 22, number 3, pages: 845 - 870, 2024.
- 4 Felisia Angela Chiarello, Harold Deivi Contreras, Luis Miguel Villada. Existence of entropy weak solutions for 1D non-local traffic models with space-discontinuous flux. *Journal of Engineering Mathematics*. 141, 9, 2023.
- 5 Felisia Angela Chiarello, Giuseppe Maria Coclite. Nonlocal scalar conservation laws with discontinuous flux. *Networks and Heterogeneous Media*. Volume 18, Issue 1: 380-398, 2023.
- 6 Felisia Angela Chiarello, Andrea Tosin. Macroscopic limits of non-local kinetic descriptions of vehicular traffic. *Kinetic and Related Models*. 16(4): 540-564, 2023.
- 7 Felisia Angela Chiarello, Harold Deivi Contreras, Luis Miguel Villada. Nonlocal reaction traffic flow model with on-off ramps. *Networks and Heterogeneous Media*. 17(2): 203-226, 2022.
- 8 Felisia Angela Chiarello, Benedetto Piccoli, Andrea Tosin. A statistical mechanics approach to macroscopic limits of car-following traffic dynamics. *International Journal of Non-Linear Mechanics*. Volume 137, 103806, 2021.
- 9 Felisia Angela Chiarello, Benedetto Piccoli, Andrea Tosin. Multiscale control of generic second order traffic models by driver-assist vehicles. *Multiscale Modeling and Simulation*. 19(2), 589-611, 2021.
- 10 Felisia Angela Chiarello, Giovanni Girardi, Sandra Lucente. Fujita regularity exponent for scale invariant damped semilinear wave equation. *Journal of Evolution Equations*. 21, pages 2735-2748, 2021.
- 11 Felisia Angela Chiarello, Jan Friedrich, Paola Goatin, Simone Göttlich. Micro-Macro limit of a non-local generalized Aw-Rascle type model. *SIAM Journal on Applied Mathematics*, 2020 80:4, 1841-1861, 2021.
- 12 Felisia Angela Chiarello, Jan Friedrich, Paola Goatin, Simone Göttlich, Oliver Kolb. A non-local traffic flow model for 1-to-1 junctions. *European Journal of Applied Mathematics*, 1-21, 2020.

- 13 Felisia Angela Chiarello, Paola Goatin, Luis Miguel Villada. Lagrangian-Antidiffusive Remap schemes for non-local multi-class traffic flow models. *Computational and Applied Mathematics*. 39:60, 2020.
- 14 Felisia Angela Chiarello, Paola Goatin. Non-local multi-class traffic flow models. *Networks and Heterogeneous Media*. Volume 14, Issue 2: 371-387, 2019.
- 15 Felisia Angela Chiarello, Paola Goatin, Elena Rossi. Stability estimates for non-local scalar conservation laws. *Nonlinear Analysis Series B: Real World Applications*. Volume 45, Pages 668-687, 2019.
- 16 Felisia Angela Chiarello, Paola Goatin. Global entropy weak solutions for general non-local traffic flow models with anisotropic kernel. *ESAIM: Mathematical Modelling and Numerical Analysis*. Volume 52, Number 1, January-February 2018.

Chapters

- 1 Felisia Angela Chiarello, Harold Deivi Contreras. Stability estimates for nonlocal balance laws arising in traffic modelling. *HYP2022 XVIII International Conference on Hyperbolic Problems: Theory, Numerics, Applications*. Springer. Accepted for publication.
- 2 Felisia Angela Chiarello, Paola Goatin. A non-local system modeling bi-directional traffic flows, in 'Advances in Numerical Methods for Hyperbolic Balance Laws and Related Problems', SEMA SIMAI Springer Series, YR: Young Researchers Conference, 2021.
- 3 Felisia Angela Chiarello. An overview of non-local traffic flow models, in 'Mathematical Descriptions of Traffic Flow: Micro, Macro and Kinetic Models', ICIAM2019 SEMA SIMAI Springer Series, 2020.
- 4 Felisia Angela Chiarello, Paola Goatin, Luis Miguel Villada. High-order Finite Volume WENO schemes for non-local multi-class traffic flow models. *AIMS Series on Applied Mathematics. Hyperbolic Problems: Theory, Numerics, Applications*, Volume 10. Proceedings of the Seventeenth International Conference on Hyperbolic Problems held at the Pennsylvania State University, University Park, June 25-29, 2018.

Conference paper

- 1 Felisia Angela Chiarello. Non-local traffic flow models. *Oberwolfach Report N. 24*, 2019.

In preparation

- 2 Felisia Angela Chiarello, Simone Fagioli, Massimiliano Rosini. A 2×2 system of conservation laws with discontinuous flux and applications. 2024.
- 1 Felisia Angela Chiarello, Alexander Keimer, Lukas Pflug. Nonlocal conservation laws with p -norm and applications in traffic flow.

- 2 Debora Amadori, Felisia Angela Chiarello, Rinaldo Mario Colombo. On general balance systems with free boundary.
- 3 Debora Amadori, Felisia Angela Chiarello, Gianmarco Cipollone. An Aw-Rascle-Zhang-type traffic model with nonlocal pressure term and anisotropic kernel.
- 4 Felisia Angela Chiarello, Jan Friedrich, Simone Göttlich. An optimal control problem for nonlocal traffic models.

Languages

Italian **Mothertongue**
English **Fluent**
French **Intermediate level**

Other Information

- 2016-2017 Erasmus+ student at the University of Franche-Comte, Besançon, France. Attended course: EDP held by Professor Louis Jeanjean and Farid Ammar Khodja, Laboratoire de Mathématiques. Project M1 and Master thesis with Maître de conférences Carlotta Donadello on the argument: Conservation laws.
- August 2016 Perugia Summer courses SMI. Attended courses: Partial Differential Equations held by Prof. Giuseppe Savaré (University of Pavia) with final mark test A, and Differential Geometry held by Prof. Liviu Ornea (University of Bucharest), with final mark test A+.
- 2010-2016 Violin and viola player. Attendance of the Music Conservatory of Taranto and Bari. Obtaining licenses of complementary piano and solfeggio.

LAST UPDATE: JULY 21, 2024