

Curriculum Vitæ of Lorenzo Brandolese

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Citizenship: Italian

Spoken languages: Italian (native), French (fluent), English (fluent).

Positions held

2003–present.

- Professor of Mathematics (since 2023) and *Maître de conférences* in Mathematics (2003–2023) at the University Lyon 1.
- Member of the *Institut Camille Jordan* (ICJ) and of team “Partial differential equations and Analysis”.
- 2011–2015: vice-director of the ICJ in charge of the scientific animation and communication.

2007/08. Research Scientist at the CNRS.

2001-03. Researcher/teaching temporary position at *University Paris-Ouest X*, next at *University of Paris-Est* (France).

Titles and diplomas

2011. Qualification for professorship. (General Mathematics and Applied Mathematics) awarded by the CNU (French Council of Universities).

2010 Habilitation. *Habilitation à diriger des recherches* (Thesis and diploma), University Lyon 1. Dissertation title: *Qualitative properties of solutions to some semilinear parabolic equations*. Defended on December 8th, 2010. Referees : Eduard Feireisl, Isabelle Gallagher, Yoshikazu Giga

2001 Ph.D in mathematics. Awarded by École Normale Supérieure de Cachan. Dissertation title: *Localization, oscillations and asymptotic behavior for solutions to the Navier–Stokes equations* Ph.D advisor : Yves MEYER (ENS Cachan, France).

1997 and 1998. French Master degree D.E.A. (diplôme d’études approfondies). Specialization: **Nonlinear applied analysis**, awarded by the University Paris IX–Dauphine (France, 1998). Italian Master degree (Laurea) of mathematics at the University of Milano (Italy, 1997).

Grants, contracts and other financial supports

As (co)-principal investigator: **2023** ARQUS program Lyon-Wroclaw (5000€). **2022** CNRS-IRL doctoral funding (90000€, with F. Fanelli). **2022** ANR-Ukraine program (70000€) . **2022** PAUSE program (7000€). **2021** Collegium de Lyon (with P. Biler, A. Boritchev) (24000€). **2016-18.** Labex funding for a posdoc (75000€). **2015** Grant of the *Faculté des sciences et techniques de Lyon 1* for master student supervision: 1016€. **2010-13** Funding granted by *SENESCYT (Secretaria Nacional de Educacion Superior, Ciencia, Tecnologia e Innovacion)* for PhD supervision. 120000\$. **2008, 2009** France-Berkeley fund (10 000\$) **2007, 2008** Head of the french team of a bi-national partnership “Hubert Curien EGIDE STAR” (France–Rep. South Korea), €15200. **2006-07** Marie Curie Host Fellowship for the transfer of knowledge: €5800. **2005, 2006** Head of the french team for the bi-national project “Polonium”: €11000. **2005/06:** *Bonus Qualité Recherche*: €2500. Granted by University Lyon 1. In collaboration with Dragoş Iftimie. **2002:** Grant of the University of Milan. **2001:** Research contract with the *Centre de Mathématiques et de leurs applications* at Ecole Normale Supérieure de Cachan. **1998** Three years of financial support granted by the *Istituto Nazionale di Alta Matematica F. Severi*, Roma (Italy) for Ph.D studies in foreign contries.

As member of project: **2024-25 COFECUB** (France-Brazil cooperation). **2019-2020 PICS** (France-Brazil cooperation) : Singular limits in non-newtonian fluid mechanics. **2014-17** *French National Agency for Scientific Research*: €220000. Project “Dynamics of Fluids, Boundary Layers, Interphases”. **2006-08** *French National Agency for Scientific Research*: €190000. Project : “Singularities and asymptotic behavior for solutions of Euler and Navier–Stokes”.

Visiting positions and foreign collaborators

Visiting positions and research cooperations (more than one week) National Taiwan University in Taipei and MSRI, July 2022 (two weeks). Academy of Mathematics and System Science, Beijing, (invited by Pigong Han), October 2019. MSRI, Berkeley, (invited by Y. Giga, T. Yoneda and M. Schonbek), July 2019. Tokyo University (invited by T. Okabe) and Nagoya University (invited by T. Hishida), Japan, september 2018. University of California Santa Cruz. Invited by Maria Schonbek, in **2015**, **2009** and **2008**. Chinese Academy of Sciences. Invited 3 weeks by Pigong Han, **2012**. Zhejiang normal University. invited 2 weeks by Yong Zhou, **2010**. Ajou University and Mokpo National University, Rep. South Korea, invited by Prof. H.-O. Bae and B. J. Jin, **2007** University of Wroclaw (Poland), **2006**, **2007**, invited by prof. G. Karch and P. Biler.

Hosted researchers (from two weeks to one year) : Yuliia Samoilenko (one year), Valerii Samoilenko (18 months), 2022-24. Piotr Biler, Wroclaw university, 2005, 2008 and 2021. Hyeong-Ohk Bae, Ajou University, 2007. Bum Ja Jin, Mokpo National University, 2007. Maria Schonbek, University of California Santa Cruz UCSC, 2006 et 2007. Grzegorz Karch, University of de Wroclaw, 2005 et 2006. Andrzej Raczyński, University of Wroclaw, 2006.

Student supervision

Ph.D students: Matthieu Pageard. Ph.D started in October 2022. Jiao He. Thesis defended in 2019. Currently Assistant professor at Paris-Saclay University. Fernando Cortez : Thesis title *Blowup of slowly oscillating solutions of semilinear equations*. Defended on october 2015. Currently Assistant professor at Escuela Polytecnica Nacional, Equateur.

Other students. 2023. Vittorio Baroncini (Master) **2022.** Sami Tuaref (Master). **2021.** Geoffrey Lacour (Master). **2016-18.** Post-doc of Rafael Granero Belinchon (2 years). **2016.** Master stage of Charafeddine Mouzouni, 5 months : *Heat transfer in incompressible fluids*. **2015.** Ankitkumar Patel: 1st year Master Stage, at the *National Institute of Technology*, Surat, Inde. **2015.** T.I.P.E. : Arthur Diot. **2014.** Duc Trung Hoang, stage 2nd year master, **2011.** Stage Master 2nd year of Pauline Michon, **2007.** Stage Master 2nd year of Stéphane Hamm, **2006.** Stage Master 1st year of Mickaël Dos-Santos.

Responsibilities

National and local responsibilities:

1. 2016– Responsible of the Bachelor and of the Double Bachelor Mathematics and Economics, University Lyon 1.
2. 2016– 2020 : Member of the *Scientific committee* and of the council of the laboratory. Member of the advisory board of the Mathematics department. Member of the hiring committee of Mathematics and Applied Mathematics at University Lyon 1 (2004–2016).
3. Member of the French *National Council of University* 2007–2015.
4. (2011–2015) **Vice-director** of the Institut Camille Jordan (180 faculty members) in charge of the scientific animation and of the communication. This included the organization of a monthly colloquium, of welcome meetings and occasional special events; the responsibility of editorial choices (web site, information letters, prospectus); internal and external communication.

Conference organization: *Summer School on fluid and turbulence*, Lyon 2022. *Special session of the franco-roumanian congress*, Bordeaux. *Scientific meeting of the Lyon Faculty of science*, 2017, 2012, and 2013. *Mathematics of fluid dynamics*, Lyon 2014. *Mathematical methods in fluid mechanics mathématiques*, Lyon 2009. *Analysis of PDEs*, Lyon 2007.

Editorial activity: Associate editor for the journal *Nonlinear Analysis*, 2012-2020 (Elsevier).

Miscellanea

Individual financial awards: *Scientific excellence award*: 2009–2013. *Award for research and graduate student supervision*, 2005–2008 and 2014-present. *Pedagogical responsibilities award*, 2008–2010.

Refereeing activity: Past Editor of *Nonlinear Analysis* (2013–2019). Referee for more than 35 mathematical journals.

Publications: (<http://math.univ-lyon1.fr/~brandolese>). 39 research papers (co)-authored, 2001–present. One contribution to a collective research book. Two contributions to large audience scientific websites.