

Idriss Mazari

Curriculum Vitae

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Education

Current situation

Sept. **Visiting member at DeustoTech, under the supervision of E. Zuazua, Bilbao, Spain.**
2019-Dec.
2019

2017-20.. **PhD in Applied Mathematics, Paris-Sorbonne University, Paris, France (advisors: G. Nadin and Y. Privat), Shape Optimization in Mathematical Biology, Laboratoire Jacques-Louis Lions.**

2013-2017:STUDENT OF ENS DE LYON

2016-2017 **Research Internship (advisors: G. Nadin and Y. Privat), Shape Optimization and Rearrangements, Laboratoire Jacques-Louis Lions.**

2015-2016 **Master 2: Analysis of PDEs and Calculus of Variations, Paris Jussieu University.**

2014-2015 **Master 1 : Advanced Mathematics, École Normale Supérieure de Lyon.**

2013-2014 **Licence 3: Advanced Mathematics, École Normale Supérieure de Lyon.**

2011–2013 **Preparatory Classes MPSI-MP***, Lycée Louis-Le-Grand, Paris.

Published and accepted articles

1. *Optimal location of resources maximizing the total population size in logistic models*, with G. Nadin and Y. Privat, Accepted in *Journal de Mathématiques Pures et Appliquées* (2019).
2. *Equilibria and stability issues for diffusive Lotka-Volterra system in a heterogeneous setting for large diffusivities*, Published in *Discrete and continuous dynamical systems, Series B* (2019).

Submitted articles

1. *A quantitative inequality for the first eigenvalue of a Schrödinger operator*,

Talks

1. Laboratory Seminar, Brescia, Italie, February 2019.
2. Mathematical Biology Day, Dauphine, December 2018.
3. Shapo ANR, Grenoble, December 2018.
4. Shape Optimization day, Poitiers, October 2018.
5. ReaDi ANR Meeting, Chambéry, February 2018.
6. Laboratory Seminar, UTC Compiègnes, February 2018.
7. PhD Students' Seminar, Nantes, January 2018.
8. Conference in PDEs, Stockholm, December 2017.
9. PhD Students' Seminar, LJLL, October 2017.

Research Stays

1. Brescia (Italy), February 2019.

Attended Conferences and Workshops

- 2019 **PDE Days of IECL**, Metz (France).
- 2018 **Shape Optimization and Applications**, *ANR Meeting*, Grenoble (France).
- 2018 **Population Dynamics**, *ERC Meeting*, Porquerolles (France).
- 2018 **Shape Optimization and Applications**, Pau (France).
- 2018 **Canum**, Agde (France).
- 2018 **Population dynamics and non-local equations**, *ANR Meeting*, Chambéry (France).
- 2018 **Conference in PDEs**, Stockholm (Sweden).
- 2017 **Geometric aspects of PDEs**, *1 week*, CIME foundation, Cetraro (Italie).
- 2017 **Shape Optimization and Applications**, *2 jours*, Limoges (France).
- 2017 **Journées Jeunes EDPistes Français**, Autrans (France).
- 2016 **Summer school: Shape optimization, functional and isoperimetric inequalities**, *1 week*, CIRM, Marseille (France).

Teaching Experience

- 2017-2020 **Teacher (Paris Sorbonne Université)**, *Analysis, Linear Optimization, Python*, Paris.
- 2017 **Teacher for the Summeria Sumer School**, Lyon.
- 2017 **Teacher (One week course)**, PRISTINA UNIVERSITY, Kosovo, Optimization and calculus of variations.
- 2015-2017 **Oral Examiner**, LYCÉE LOUIS LE GRAND, Paris.
- 2016 **Teacher for the Mathsinfoly Summer School**, Lyon.
- 2014-2015 **Oral Examiner**, LYCÉE AUX LAZARISTES, Lyon.

Organization

- 2019 **Scientific Expert for the "L'X: l'équation du mérite" Exhibition École Polytechnique**, Palaiseau.
(with J. Dhombres and F. Brechenmacher)
- 2018 **Scientific Expert for the "Joseph Fourier, de la Révolution Française à la Révolution Numérique" Exhibition, Institut Henri Poincaré**, Paris.
(with J. Dhombres and A. Juhel)
- 2017-208 **Co-organizer of the PhD students' Seminar, Laboratoire Jacques-Louis Lions**, Paris.
- 2017 **Instructor for the Summeria Summer School**, Lyon.
- 2016 **Instructor for the Mathsinfoly Summer School**, Lyon.
- 2014-2015 **Director of the Student's Mathematics' Journal**, ENS de Lyon.
- 2014-2015 **Organizer of the Students' History of Science's Seminar**, Lyon.
- 2014 **Local Organization Committe of the ISSMYS Summer School**, Lyon.

Science Popularization

1. *Meeting Joseph Fourier*, McGill Journal of Undergraduate Mathematics, 2018
2. *Le théorème de Birkoff: géodésiques fermées des surfaces*, Journal de Mathématiques des élèves de l'ENS de Lyon, 2017
3. *Une balade en compagnie de Monge et Lagrange*, Journal de Mathématiques des élèves de l'ENS de Lyon, 2016
4. *L'inégalité isopérimétrique et l'inégalité de Faber-Krahn*, Journal de Mathématiques des élèves de l'ENS de Lyon, 2015

Research Internships

- 2016 **Research Internship (M2)**, LABORATOIRE JACQUES-LOUIS LIONS, Paris VI, Quelques considérations sur l'équation logistique diffusive, advisors: G. Nadin and Y. Privat.
- 2015 **Research Internship (M1)**, INSTITUT DE MATHÉMATIQUES DE JUSSIEU, Paris VI, Transport optimal et inégalités géométriques, advisor: Dario Cordero-Erausquin.
- 2014 **Research Internship (L3)**, LABORATOIRE JACQUES-LOUIS LIONS, Paris VI, Introduction à l'optimisation et aux réarrangements, advisors: G. Nadin and Y. Privat.

Computer Skills

Intermediate Word, Python
Advanced Latex

Linguistic Skills

French **Native Speaker**
English **Fluent.**
Spanish **Basic.**