

Employment

- Spring 2021 **Program Associate in the Mathematical Problems In Fluid Dynamics** , *MSRI, Berkeley.*
- 09/2018– **PhD**, *ENS Paris Saclay, Paris.*
- 09/2019– **Teaching Assistant**, *Université de Paris Sud, Paris.*
09/2020
- 09/2018– **Teaching Assistant**, *ENS Paris Saclay, Paris.*
09/2019

Education

- 09/2018– **ENS Paris Saclay, Paris.**
Thesis: "On the regularity of the flow of the Euler system without Boundary"
- 09/2017– **Ecole Polytechnique-Université de Paris Sud- Paris Saclay, Paris.**
06/2018 Masters 2 in theoretical mathematics: M2 AAG, the Title of "Polytechnicien Engineer".
- 09/2014– **Ecole Polytechnique, Paris.**
03/2017 Generalist engineering diploma, Bachelors in mathematics and physics and Masters 2 in theoretical mathematics.
- 09/2013– **Classes préparatoires of lycée Hoche, Versailles.**
07/2014 Mathematics and Physics (MP*).

Funding

- 09/2018– **Doctoral Grant AMX, Ecole Polytechnique.**
09/2021

Recent Preprints

1. **A geometric proof to the Quasi-linearity of the Water-Waves system and the incompressible Euler equations**, arXiv preprint, Submitted.
2. **On Paracomposition and change of variables in Paradifferential operators**, arXiv preprint, Submitted.
3. **Regularity results on the flow map of periodic dispersive Burgers type equations and the Gravity-Capillary equations**, in preparation.
4. **On the global well-posedness of the weakly dispersive Burgers type equations**, in preparation.

Teaching

- 2018–2019 **Tutorials on functional Analysis, Masters 1**, *ENS Paris Saclay, Paris.*
- 2018–2019 **Lectures on Distributions for Aggregation, Masters 2**, *ENS Paris Saclay, Paris.*
- 2019–2020 **Tutorials in Calculus, Bachelors 1**, *Paris-Sud University, Paris.*
- 2019–2020 **Lectures on Dynamical Systems for Biology, Bachelors 3**, *Paris-Sud University, Paris.*

Professional Experience

11/2017– **Memoir M2**, Paris.

7/2018 ○ Memoir M2 under the direction of Pr. Thomas Alazard working on the regularity of the flow map associated to the Water Waves PDE.

3/2017– **Research Internship, IMPA, Rio, Brazil.**

09/2017 ○ Worked under the direction of Pr. Jose Espinar in the domain of minimal and constant mean curvature surfaces specifically on Alexandrov's Theorem and the spherical cap conjecture with special interest on the maximum principle for Elliptique PDE.

06/2016– **Actuarial Studies**, AXA France, Paris.

09/2016 ○ Survival studies of populations for special insurance products(classified).

10/2014– **Assistant Professor**, *Académie De Toulouse, Lycée de La Borde Basse, Toulouse.*

04/2015 ○ Assistant Professor on the topics: Mathematics and Physics on an undergraduate level: first and second year of mathematical preparatory classes.

- Supervise the undergraduate student scientific projects.

- Assistant Teacher: Mathematics, Physics and English in High School.

09/2014– **Officer Cadet Training**, *French Army: École Polytechnique, France.*

10/2014 ○ Officer Cadet.

— Languages

Arabic Mother tongue

French Equivalent to a mother tongue.

Anglais C1/C2 European language level (bilingual)

Computer skills

Langages **Java, LaTeX, R, SAS**

 Sports and Hobbies

Handball, sport fishing, playing the violin and oil painting;