

Giorgia Ciavolella

Curriculum Vitae

Personal Information

Name Giorgia Ciavolella
Date of birth 19-04-1995
Place of birth Rome, Italy
Email giorgia.ciavolella@ljll.math.upmc.fr

Education

- OCT 2019 - **Ph.D student in Applied Mathematics**, Sorbonne Université & Università di Tor Vergata, Paris (France) & Rome (Italy).
Current
Advisor: Prof. BENOÎT PERTHAME and Prof. ROBERTO NATALINI
- OCT 2017 - **Master's degree in Applied Mathematics**, Università La Sapienza, Rome (Italy),
JUL 2019 *Macroscopic mathematical models for cell migration through membranes*, 110/110 cum laude.
Advisors: Prof. ROBERTO NATALINI and Prof. EUGENIO MONTEFUSCO
- OCT 2014 - **Bachelor's degree in Mathematics**, Università La Sapienza, Rome (Italy),
JUL 2017 *Microscopic Derivation of the Diffusion, Drift and Reaction Equation*, 110/110 cum laude.
Advisor: Prof. GIADA BASILE
- SEP 2009 - **Scientific High School Diploma**, Liceo G.B. Morgagni, Rome (Italy), 100/100.
JUN 2014

Publications

Giorgia Ciavolella, Benoît Perthame, *Existence of a global weak solution for a reaction-diffusion problem with membrane conditions*, Journal of Evolution Equations, Springer Verlag, 2020.

Experience

Period abroad

- SEP 2018 - **Erasmus+ programme**, Sorbonne Université, Paris (France).
JAN 2019

Talks

- JAN 2020 **Workshop of PhD students of LJLL**, *A Keller-Segel model with transmission describing metastasis formation*, Sorbonne Université, Paris, France.

- DEC 2020 **Giornata Giovani ricercatori IAC-CNR**, *Existence of a global weak solution for a reaction-diffusion problem with membrane conditions*, Online talk.
- JAN 2021 **Mamba Group talk**, *Membrane problems: existence of solutions and numerical analysis*, Online talk.
- Attended Workshops**
- NOV 2019 **LIA COPDESC and Lions Magenes Days**, *French-German-Italian meetings*, Laboratoire Jacques-Louis Lions, Sorbonne Université, Paris, France.
- NOV 2019 **Shape analysis in biology**, Laboratoire Jacques-Louis Lions, Sorbonne Université, Paris, France.
- NOV 2019 **Modélisation, analyse et simulation - Le Laboratoire Jacques-Louis Lions fête ses 50 ans**, Campus des Cordeliers, Sorbonne Université, Paris, France.
- FEB 2020 **Recent Advances in Degenerate Parabolic Systems with Applications to Mathematical Biology**, *PDE Workshop 2020*, Laboratoire Jacques-Louis Lions, Sorbonne Université, Paris, France.
- FEB 2020 **Mathematics of Complex Systems in Biology and Medicine**, CIRM, Marseille, France.
- JUN 2020 **IbOMaN : Interplay between Oncology, Mathematics and Numerics: focus on pre-treatment studies**, Online Conference.
- JUN-JUL 2020 **Virtual Seminar on Modeling Biocomplexity: Cancer Invasion and Progression**, Online Conference.
- JUN-JUL 2020 **Seminar In the Analysis and Methods of PDE (SIAM PDE)**, Online Conference.
- NOV-APR 2020-2021 **AIM: Artificial Intelligence and Mathematics (CNR-IAC)**, Online Conference.

Teaching

- 2019-2020 **Teaching assistant - Mathématiques pour les études scientifiques II, L1 - undergraduate**, Sorbonne Université, Paris, France.
- 2020-2021 **Teaching assistant - Analyse numérique, L3 - undergraduate**, Sorbonne Université, Paris, France.
- 2020-2021 **Teaching assistant - Mathématiques pour les études scientifiques II, L1 - undergraduate**, Sorbonne Université, Paris, France.

Languages

- Italian **Mother tongue**
- English **Independent user**
- French **Proficient user**

Computer skills

Operative systems: Windows, Linux

Programming languages and Scientific software: Fortran90, C, C++, MATLAB

Others: L^AT_EX