

Anna Logioti

Curriculum Vitae

Institut für Analysis, Dynamik und
Modellierung - IADM
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Personal Information

Nationality **Greek.**
Born **17/11/1993.**

Research Interests

- **Applied Mathematics**
- **Analysis of Partial Differential Equations**
Reaction-Diffusion Systems
- **Well-Posedness, Qualitative Behaviour of Solutions**
- **Free Boundary Problems**
Obstacle-type Problems
- **Mathematical Biology**
Cell polarization

Employment

- 11/2022-09/2023 **Universität Stuttgart**, Stuttgart, Germany.
○ **Postdoctoral researcher**, with Prof. Dr. Guido Schneider
- 10/2018-09/2022 **Rheinische Friedrich-Wilhelms-Universität**, Bonn, Germany.
○ **Research assistant**, with Prof. Dr. Barbara Niethammer

Education

- 10/2018-09/2022 **Ph.D. in Mathematics**, Grade: "magna cum laude", Rheinische Friedrich-Wilhelms-Universität, Bonn, Germany.
○ **Ph.D. Thesis:** "*A non-local free boundary problem arising in a model of cell polarization*," under supervision of **Prof. Dr. Barbara Niethammer**
- 10/2015-08/2018 **M.Sc. in Mathematics**, Grade: "excellent", National and Kapodistrian University of Athens, Athens, Greece.
○ **M.Sc. Thesis:** "*One and Two Dimensional Connecting Orbits for Phase Transition Systems*," under supervision of **Prof. Dr. Nicholas D. Alikakos**
- 10/2011-06/2015 **B.Sc. in Mathematics**, Grade: "very good", National and Kapodistrian University of Athens, Athens, Greece.
○ **Specialization:** "*Pure Mathematics*"

Certificates

- 02/2022- **Data Science with Python** , National and Kapodistrian University of Athens,
05/2022 e-learning.
- NumPy, Pandas, Matplotlib
 - Machine Learning & Deep learning (Scikit Learn, TensorFlow, Keras)

Honors & Awards

- Hausdorff Doctoral Scholarship, Bonn International Graduate School, 2018-2022.
- Scholarship for extraordinary nationwide university entrance examination score and admission in the Mathematics Department of university of Athens, National Post Agency of Greece, 2011.
- Nationwide University Entrance Examination Score, Grade: 18.500/20.000, (*top 2% nationwide*).

Peer-reviewed Publications

- With Barbara Niethammer, Matthias Röger and Juan J.L. Velázquez. "A parabolic free boundary problem arising in a model of cell polarization." *SIAM J. Math. Anal.* (2021) Vol. 53.

Preprints

- With Barbara Niethammer, Matthias Röger and Juan J.L. Velázquez. "Qualitative properties of solutions to a non-local free boundary problem modeling cell polarization." arXiv:2202.06289
- With Barbara Niethammer, Matthias Röger and Juan J.L. Velázquez. "Global continuity properties of the interfaces of a non-local free boundary problem describing cell polarization." *In preparation*

Contributed Talks

- 07/2022 **CEDYA / CMA 2022**, *Minisymposium, Zaragoza (online)*.
◦ **PDE Models in Biology**
- 07/2022 **Second Congress of Greek Mathematicians SCGM-2022**, Conference, Athens, Greece.
◦ **Differential Equations**
- 09/2021 **FBP2021**, Minisymposium, Berlin (online) .
◦ **Free boundary problems in cell biology**
- 09/2021 **ICMS**, Workshop, Edinburgh (online) .
◦ **Modelling Diffusive Systems: Theory & Biological Applications**
- 06/2021 **CEDYA / CMA 2020**, Minisymposium, Gijón (online) .
◦ **Nonlinear PDEs and its applications in Natural Sciences**
- 02/2021 **Women in Applied Mathematics**, Workshop, Crete (online).

Schools, Conferences and Workshops attended

- 04/2021 **Hausdorff School**, on "*Diffusive Systems: Pattern Formation, Bifurcations, and Biological Applications*", Bonn, Germany (online).
- 09/2019 **CIME School**, on "*Geometric Measure Theory and Applications: From Geometric Analysis to Free Boundary Problems*", Cetraro, Italy.
- 02/2019 **Workshop**, "*Geometric Measure Theory and Free Boundary Problems*", Bonn, Germany.
- 06/2018 **Conference**, "*First Congress of Greek Mathematicians FCGM-2018*", Athens, Greece.

Teaching Experience

- Winter 2022/2023 **Teaching Assistant**, Universität Stuttgart (Prof. Dr. Ingo Steinwart).
◦ **Lecture:** "*Höhere Mathematik 1 für el, mecha, phys, tkyb*"
- Summer 2020 **Teaching Assistant**, University of Bonn (Prof. Dr. Juan J. L. Velázquez).
◦ **Seminar:** "*Ordinary Differential Equations and Dynamical Systems*"
- 10/2013-06/2018 **Private Tutor**, Athens, Greece.

Programming Skills

- Python, Matlab

Languages

- **Greek:** Native
- **English:** Fluent
- **German:** Intermediate

Scientific Referees

- **Prof. Dr. Barbara Niethammer**,
University of Bonn, Institute for Applied Mathematics,
niethammer@iam.uni-bonn.de.
- **Prof. Dr. Juan J. L. Velázquez**,
University of Bonn, Institute for Applied Mathematics,
velazquez@iam.uni-bonn.de.