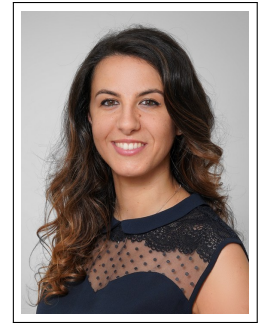


**CONTACT INFORMATION**

*Office:* RICAM (Radon Institute for Computational and Applied Mathematics)  
Vordere Zollamtstraße 3, 1030 Vienna, Austria  
*E-mail:* annalisa.iuorio@ricam.oeaw.ac.at  
*Webpage:* <https://annalisaiuorio.com>  
*Orcid:* <https://orcid.org/0000-0002-2297-4522>



Born on April 28, 1989. Italian citizenship.

**EMPLOYMENT**

*Nov 2019–present:* **Radon Institute for Computational and Applied Mathematics (Austria)**  
**Postdoctoral Researcher** in the group of Dr. Marie-Therese Wolfram  
*Mar 2017–Oct 2019:* **Vienna University of Technology (Austria)**  
**Scientific Manager** of the Doctoral School (DK) “*Dissipation and Dispersion in Nonlinear PDEs*”

**EDUCATION**

*2014–2018:* **Vienna University of Technology (Austria)**  
**Ph.D in Mathematics** (with Distinction), Viva date: 24 January 2018  
“*Geometric analysis of multi-scale solutions in regularized models of microstructures and touchdown phenomena in MEMS*”  
Advisor: Peter Szmolyan  
*2011–2013:* **University of Naples Federico II (Italy)**  
**Master Degree in Mathematics** (110/110 cum Laude)  
“*Mathematical Models for Vegetation Pattern Formation*”  
Advisors: Addolorata Marasco and Francesco Giannino  
*2007–2011:* **University of Naples Federico II (Italy)**  
**Bachelor Degree in Mathematics** (110/110 cum Laude)  
“*On nonparametric inference statistical methods: The Wilcoxon Test*”  
Advisor: Maria Longobardi

**ACADEMIC HONOURS AND AWARDS**

*2019:* **Christiana Hörbiger Award**, travel grant (5.K€)  
*2018:* **Christiana Hörbiger Award**, travel grant (1.1K€)

**PUBLICATIONS**

- [1] A. Marasco, F. Giannino, A. Iuorio. *Modelling competitive interactions and plant-soil feedback in vegetation dynamics*. *Ricerche mat.*, 2020, <https://doi.org/10.1007/s11587-020-00497-6>.
- [2] A. Iuorio, N. Popović, and P. Szmolyan. *Singular perturbation analysis of a regularized MEMS model*. *SIAM J. Appl. Dyn. Syst. (SIADS)*, 18(2):661–708, 2019, <https://doi.org/10.1137/18M1197552>.
- [3] A. Iuorio and S. Melchionna. *Long-time behavior of a nonlocal Cahn-Hilliard equation with reaction*. *Discrete Contin. Dyn. Syst.*, 38(8):3765–3788, 2018, <https://doi.org/10.3934/dcds.2018163>.
- [4] A. Iuorio, C. Kuehn, and P. Szmolyan. *Geometry and numerical continuation of multiscale orbits in a nonconvex variational problem*. *Discrete Contin. Dyn. Syst. Ser. S*, <https://doi.org/10.3934/dcdss.2020073>.
- [5] A. Marasco, A. Iuorio, F. Cartenì, G. Bonanomi, D.M. Tartakovsky, S. Mazzoleni, and F. Giannino. *Vegetation pattern formation due to interactions between water availability and toxicity in plant-soil feedback*. *Bull. Math. Biol.*, 76(11):2866–2883, 2014, <https://doi.org/10.1007/s11538-014-0036-6>.

- [6] A. Marasco, A. Iuorio, F. Carteni, G. Bonanomi, F. Giannino, and S. Mazzoleni. *Water limitation and negative plant-soil feedback explain vegetation patterns along rainfall gradient*. *Procedia Environ. Sci.*, 19: 139–147, 2013, <https://doi.org/10.1016/j.proenv.2013.06.016>.

## RESEARCH VISITS

- Jul 2019 & Jan 2019:* **Heidelberg University (Germany)**, collaboration with Frits Veerman  
*Jul 2019:* **University of Rostock (Germany)**, collaboration with Jens Starke  
*Jun 2018:* **TU Munich (Germany)**, collaboration with Christian Kuehn  
*May 2018 & Sep-Dec 2016:* **The University of Edinburgh (UK)**, collaboration with Nikola Popović

## SEMINAR TALKS

- Jan 2020:* *Applied Math Seminar*, University of Warwick, UK  
*Nov 2019:* *Seminar on Qualitative Theory of Differential Equations*, Comenius University Bratislava, Slovakia  
*Sep 2019:* *Analysis Seminar*, University of Graz, Austria  
*Aug 2019:* *Applied and Interdisciplinary Mathematics Seminar*, University of Bath, UK  
*Jul 2019:* *GSPT Seminar*, Heidelberg University, Germany  
*Jul 2019:* *Mathematisches Forschungskolloquium*, University of Rostock, Germany  
*Mar 2019:* *Mathematisches Forschungskolloquium*, University of Rostock, Germany  
*Jan 2019:* *Applied Analysis Seminar*, Heidelberg University, Germany  
*Jun 2018:* *Oberseminar*, Technical University of Munich, Germany  
*Sep 2016:* *PG (Post-Graduate) Colloquium*, The University of Edinburgh, UK  
*Sep 2016:* *Applied and Computational Mathematics (ACM) Seminar*, The University of Edinburgh, UK

## CONFERENCES & WORKSHOPS

- Feb 2020:* *11th Workshop on Dynamical Systems Applied to Biology and Natural Sciences (DSABNS2020)*, Trento, Italy (**Contributed Talk**)  
*Jan 2020:* *PDE-MANS 2020*, Granada, Spain (**Poster Presentation**)  
*Sep 2019:* *Workshop “On growth and pattern formation”*, Oxford, UK (**Poster Presentation**)  
*Jul 2019:* *Edinburgh Slow-Fast-Ival*, Edinburgh, UK (**Invited Speaker**)  
*May 2019:* *SIAM Conference on Applications of Dynamical Systems (DS19)*, Snowbird, Utah, USA (**Invited Speaker**)  
*Mar 2019:* *GFS follow on: Mathematics of form in active and inactive media*, Cambridge, UK (**Invited Speaker**)  
*Feb 2019:* *First International Nonlinear Dynamics Conference (NODYCON2019)*, Rome, Italy (**Contributed Talk**)  
*Feb 2019:* *10th Workshop on Dynamical Systems Applied to Biology and Natural Sciences (DSABNS2019)*, Naples, Italy (**Contributed Talk**)  
*Jul 2018:* *European Conference on Mathematical Biology (ECMTB) 2018*, Lisbon, Portugal (**Invited Speaker**)  
*Jun 2017:* *9th European Nonlinear Dynamics Conference (ENOC)*, Budapest, Hungary (**Invited Speaker**)  
*Jul 2016:* *European Conference on Mathematical Biology (ECMTB) 2016*, Nottingham, UK  
*Jun 2016:* *Vienna young Scientist Symposium*, Vienna, Austria (**Contributed Talk**)  
*Jul 2015:* *Equadiff 2015*, Lyon, France (**Contributed Talk**)  
*Jun 2013:* *Four decades of progress in monitoring and modeling of processes in the soil-plant-atmosphere system: applications and challenges*, Naples, Italy (**Contributed Talk**)

## RESEARCH SCHOOLS

- Apr 2019:* LMS-CMI Research School “PDEs in Mathematical Biology: Modelling and Analysis”,  
Edinburgh, UK (**Poster Presentation**)
- Nov 2015:* 1st CENTRAL School on Analysis and Numerics for Partial Differential Equations,  
Vienna, Austria
- Sep 2014:* Summer School “Analysis and Applications of Partial Differential Equations”,  
Graz, Austria

## OUTREACH EVENTS

- Dec 2016:* Edinburgh Maths Circle, The University of Edinburgh, UK
- Nov 2016:* Outreach event at Flora Stevenson Primary School, Edinburgh, UK

## ACADEMIC SERVICES

- 2017-present:* **Organiser of Scientific Events**
- 2021:* ICMS Early-Career Workshop “Diffusive Systems: pattern formation, bifurcations, and biological applications”, Edinburgh, UK
- 2021:* Hausdorff School “Diffusive Systems: pattern formation, bifurcations, and biological applications”, Bonn, Germany
- 2017-2019:* DK Winter & Summer Schools  
Seminar *PDE Afternoon*
- Jun 2019:* Workshop *Women in PDEs @ Vienna*, Austria
- Nov 2016:* Workshop *Nonlinear PDEs & Gradient Flows: Analytical and Numerical Aspects*,  
Vienna, Austria
- 2018-present:* **Journal Referee**
- Physica D: Nonlinear Phenomena
  - Journal of Mathematical Biology
  - Mathematical Biosciences
  - International Journal of Bifurcations and Chaos
  - IEEE Control Systems
  - Mathematical Modelling of Natural Phenomena
  - Mathematical Problems in Engineering
  - Ricerche di Matematica

## SCIENTIFIC TRAINING

- Jan 2017:* Proposal writing
- Jan 2016:* Career planning
- Jan 2015:* Scientific writing
- Jan 2014:* Presentation techniques

## WORK EXPERIENCE

- 2012-2014:* **Book Reviser** for *Editorial Group SIMONE*, Italy
- 2013-2014:* **Scientific Reviser** for *Progetto Matematika*, Italy

## MEMBERSHIPS

- Jul 2019:* *European Women in Mathematics (EWM)*
- May 2019:* *Society for Applied and Industrial Mathematics (SIAM)*
- Feb 2019:* *European Society for Mathematical and Theoretical Biology (ESMTB)*

## LANGUAGES

**Italian**, mother tongue  
**English**, fluent  
**German**, fluent

March 23, 2020