

Arghir Dani Zărnescu

Education

- 2006 **Ph.D. in Mathematics**
The University of Chicago, USA
Advisors: Peter Constantin and Lenya Ryzhik
- 2004 **M.Sc. in Mathematics**
The University of Chicago, USA
- 2002 **B.Sc. in Mathematics**
“Al.I. Cuza” University of Iasi, Romania

Employment

- 2016- Full Ikerbasque Research Professor,
at the Basque Center for Applied Mathematics (BCAM), Bilbao, Spain
- 2011-2016 Lecturer in Mathematics, University of Sussex, UK
- 2008-2011 Titchmarsh Research Fellow, University of Oxford, UK
- 2006-2008 Postdoctoral Research Assistant, University of Oxford, UK

Research Interests

Analytical questions related to the study of partial differential equations and their applications to physically relevant models.

Honours

- 2019 **“Nicolae Dinculeanu” Prize**
Romanian Academy, Romania
awarded at the 9th Congress of Romanian Mathematicians
- 2018 **“Simion Stoilow” Prize**
Romanian Academy, Romania
- 2008-2011 **Titchmarsh Research Fellow**
University of Oxford, UK
- 2008-2011 **N. Kurti Junior Research Fellow** (nonstipendiary)
Brasenose College, University of Oxford, UK
- 2002-2004 **C. Amick Fellow**
The University of Chicago, USA

Visiting Research Positions

- *Visiting Professor*, Hausdorff Institute, University of Bonn, Germany, 2023 during the Programme *Mathematics for Complex Materials*
- *Visiting Professor*, University of Toulouse, France, 2021
- *Research Fellow and Simons Foundation Fellow*, Newton Institute, Cambridge, UK, 2019 during the Programme *The Mathematical Design of New Materials*
- *Visiting Professor*, Fudan University, Shanghai, China, 2016
- *Research Fellow*, Newton Institute, Cambridge, UK, 2014 during the Programme *Free boundary problems and related topics*
- *Research Fellow*, Newton Institute, Cambridge, UK, 2013 during the Programme *Mathematics of Liquid Crystals*

Editorial Positions

- Associate Editor of the SIAM Journal on Mathematical Analysis (2023-)
- Co-editor (with X. Chen, M. Ravník and V. Slastikov) of the special issue on the Mathematical Design of Complex Materials, Phil. Trans. Roy. Soc. A 379 (2021)

Supervision of postdoctoral researchers

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| • Zhiyuan Geng (2020-2023) | BCAM (previously Courant Institute, afterwards Purdue U.) |
| • Xingyu Li (2022-2022) | BCAM (previously Ceramade, Université Paris Dauphine, currently U. di Trieste) |
| • Ashley Earls (2021-2022) | BCAM (previously U. of Akron, currently in industry) |
| • Arnab Roy (2021-2022) | BCAM (previously Czech Academy of Sciences, currently tenure-track BCAM) |
| • Panayotis Smyrnelis (2019-2022) | BCAM (previously U. of Chile, currently at U. of Athens) |
| • Jamie Taylor (2018-2022) | BCAM (previously U. of Oxford, currently CUNEF, Madrid) |
| • Giacomo Canevari (2017-2019) | BCAM (previously U. of Oxford, currently U. di Verona) |
| • Stefano Scrobogna (2017-2019) | BCAM (previously U. of Bordeaux, currently U. di Trieste) |

Ph.D. Students supervised

- Sergio Moroni (2023-)
- Razvan Ceuca (2018-2022, BCAM and Iasi) in cotutelle with Eugen Varvaruca, Alexandru Ioan Cuza University of Iasi, now at Technical U. of Iasi, Romania
- Stuart Day (2013-2017, University of Sussex), now working in industry
- Mark Wilkinson (2009-2013, University of Oxford)-afterwards postdoc at Ecolé Normale Supérieure, Paris; Courant Institute, New York and Heriot-Watt, Edinburgh
Currently at Nottingham Trent University, UK

Professional Affiliations

American Mathematical Society
Society for Industrial and Applied Mathematics
RSME (Real Sociedad Matemática Española)
SEMA (Sociedad Española de Matemática Aplicada)
EMS (European Mathematical Society)