

University College London
Department of Mathematics
Gower Street, London, WC1E 6BT, UK

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Education PhD in Mathematics 09/2016–present
University College London, UK
Supervisors: Lauri Oksanen and Erik Burman

Master in Applied Mathematics 10/2014–06/2016
Babeş-Bolyai University, Romania

Degree in Mathematics and Computer Science 10/2011–07/2014
Babeş-Bolyai University, Romania

Research Inverse problems for PDEs, stabilized finite element methods.

Positions University College London
Teaching Assistant 09/2016–present

Tiberiu Popoviciu Institute of Numerical Analysis
Researcher 05/2016–08/2016
Research Assistant 09/2014–04/2016

Publications

- [1] E. Burman, M. Nechita, and L. Oksanen, *A stabilized finite element method for inverse problems subject to the convection-diffusion equation. I: diffusion-dominated regime*, preprint, arXiv:1811.00431, 2018.
- [2] E. Burman, M. Nechita, and L. Oksanen, *Unique continuation for the Helmholtz equation using stabilized finite element methods*, J. Math. Pures Appl., 129:1-22, 2019.
- [3] G. Moroşanu and M. Nechita, *Invariant sets and attractors for Hanusse-type chemical systems with diffusions*, Comput. Math. Appl., 73(8):1815-1823, 2017.

Awards Sir George Jessel studentship, UCL 06/2018
Andrew Rosen prize for applied mathematics, UCL 05/2018
PhD Scholarship, UCL 09/2016–present
Scientific performance scholarship, Babeş-Bolyai University 10/2015–06/2016

Activities Co-organising a minisymposium on *Computational Methods for Inverse Problems* at AIP Grenoble 07/2019

Conferences	ICIAM, talk, Valencia	07/2019
	Applied Inverse Problems, talk, Grenoble	07/2019
	Computational Methods for Interface Problems, UCL	01/2019
	Inverse and Spectral Problems for (Non)-Local Operators, poster, Leipzig	09/2018
	Inverse Problems: Modeling and Simulation, poster, Malta	05/2018
	Inverse Problems Network Meeting 3, poster prize, UCL	04/2018
	Summer School in Microlocal Analysis and Applications, Cardiff	06/2017
	Numerical Analysis for PDEs, University of Warwick	04/2017
	Wave Propagation in Complex Domains, UCL	03/2017
	Carleman Estimates, Unique Continuation and Applications, UCL	11/2016
Visits	Miguel Fernández and Muriel Boulakia, COMMEDIA team, Inria Paris	06/2019
Skills	Programming in Python, Matlab, C++.	
	Languages: English (fluent), French (basic), Romanian (native).	