

Tommaso Lorenzi
 Research fellow in Applied Mathematics
 School of Mathematics and Statistics
 University of St Andrews
 St Andrews KY16 9SS
 United Kingdom

email: tl47@st-andrews.ac.uk
 webpage: <http://www.mcs.st-andrews.ac.uk/~tl47/>

Born on May 29th, 1984 in Verbania, Italy

Academic appointments

10/2015 – today

Research fellow in Applied Mathematics
 University of St Andrews, School of Mathematics and Statistics

11/2014 – 09/2015

FMJH Postdoctoral fellow
 École Normale Supérieure de Cachan, Centre de Mathématiques et de Leurs Applications

11/2013 – 10/2014

FSMP Postdoctoral fellow
 Sorbonne-Université, Laboratoire Jacques-Louis Lions

Education and qualifications

2018

Italian National Scientific Qualification as Associate Professor of Mathematical Physics (Abilitazione scientifica nazionale alla funzione di professore universitario di seconda fascia per il settore scientifico-disciplinare MAT/07)

2013

PhD in Applied Mathematics
 Politecnico di Torino

2008

MSc in Engineering Physics
 Politecnico di Torino
 Final grade: 110/110 cum laude
 Average grade: 30/30

2006

BSc in Engineering Physics
 Politecnico di Torino
 Final grade: 110/110 cum laude
 Average grade: 28/30

Awards, fellowships and prizes

- 2015** INdAM-SIMAI-UMI 2014 prize for the best Italian PhD thesis in Applied Mathematics
- 2014** Postdoctoral research fellowship for two years from the Fondation Mathématique Jacques Hadamard
- 2013** Postdoctoral research fellowship for one year from the Fondation Sciences Mathématiques de Paris
- 2012** Postdoctoral grant for one year from the MIUR-FIRB Project RBID08PP3J – ‘Mathematical methods and tools for the modelling and simulation of the onset of cancer’
- 2009** Doctoral grant for three years from the MIUR-FIRB Project RBID08PP3J – ‘Mathematical methods and tools for the modelling and simulation of the onset of cancer’
- 2008** Top graduating-student award from the Industrial Union of Turin

Grants

2019	QJMAM Fund for Applied Mathematics (£1,000)
2017	Edinburgh Mathematical Society – Research Support Fund (£600)
2017	London Mathematical Society – Research Grant Scheme 1 (£4,000)
2017	Glasgow Mathematical Journal Trust – Learning and Research Support Fund (£2,950)
2017	Edinburgh Mathematical Society – Research Support Fund (£750)
2017 - 2019	Projet International de Coopération Scientifique - CNRS (10,500 €)
2016 - 2020	ITMO Cancer – Tumor Heterogeneity and Ecosystem program (1,268,384 €) Role: Co-lead coordinator of the task ‘ <i>In vitro</i> modelling of glioblastoma response to treatment’ within the project ‘Modeling of glioblastoma treatment-induced resistance and heterogeneity by multi-modal imaging’

Selected invited talks, seminars and lectures

10/2019	Keynote speaker at the 19th BIOMAT International Symposium
07/2019	Invited talk at the minisymposium ‘Numerical Approaches Addressing Multiscale Computational Challenges in Cell Population Dynamics’ (ICIAM2019)
07/2019	Invited talk at the minisymposium ‘Mathematical Models in the Systems Biology of Cancer’ (ICIAM2019)
05/2019	SIAM Student Chapter Symposium (Bayes Centre, Edinburgh)
04/2019	Applied Mathematics Seminar (University of Glasgow)
09/2018	Invited talk at the workshop ‘Differential Equations Arising from Organising Principles in Biology’ (Mathematisches Forschungsinstitut Oberwolfach)
07/2018	Invited talk at the minisymposium ‘The Interplay Between Short- and Long-range Interactions in Biology’ (ECMTB2018)
07/2018	Invited talk at the workshop ‘Mathematical Perspectives in the Biology and Therapeutics of Cancer’ (CIRM, Marseille)
07/2018	Invited talk at the workshop ‘Asymptotic Approach to Spatial and Dynamical Organizations’ (Sorbonne-Université)
06/2018	‘BioMaths Colloquium’ (Swansea University)
05/2018	‘Seminar of the Department of Excellence Project’ (Politecnico di Torino)
01/2018	‘Applied & Numerical Analysis and Mathematical Biology Seminar’ (Heriot-Watt University)
09/2017	‘Seminar of the Heidelberg Graduate School of Mathematical and Computational Methods for the Sciences’ (Universität Heidelberg)
07/2017	Invited talk at the minisymposium ‘Multiscale mathematical approaches for cancer development’ (SMB2017)
07/2017	Invited talk at the workshop ‘Mathematical Modeling of Therapeutic Resistance’ (Sorbonne-Université)
06/2017	‘Seminaire du Laboratoire Jacques-Louis Lions’ (Sorbonne-Université)
06/2017	Invited talk at the workshop ‘Modeling and computational approaches to biology and medicine’ (Istituto Nazionale di Alta Matematica “F. Severi”)
03/2017	Invited lecture at the Vanderbilt Integrative Cancer Biology Center (Vanderbilt University)

- 07/2016** Invited talk at the minisymposium ‘Numerical methods for surface PDE problems in biology’ (ECMTB2016)
- 07/2016** Invited talk at the workshop ‘Models in cancer therapy’ (Wolfgang Pauli Institute)
- 06/2016** Invited talk at the minisymposium ‘Nonlocal models in mathematical biology’ (CAIMS2016)
- 06/2016** ‘Seminar of the Mathematics and Statistics Group’ (University of Stirling)
- 06/2016** ‘Seminar of the Biomathematics Group’ (INRIA Lyon)
- 01/2016** ‘Seminar of the Biomathematics Group’ (Université Paul Sabatier)
- 02/2015** Invited lecture at the Department of Oncology, University of Alberta
- 02/2015** Invited talk at the workshop ‘Partial differential equations in cancer modelling’ (Banff International Research Station)
- 12/2014** Invited talk at the workshop ‘Mathematical models for social sciences’ (Sorbonne-Université)
- 07/2014** Invited talk at the minisymposium ‘Deterministic and stochastic models in biology and medicine’ (10th AIMS)
- 07/2014** Invited talk at the minisymposium ‘Transport processes in biology: modelling and analysis’ (10th AIMS)
- 05/2014** Invited talk at the outreach conference ‘Mathématiques en mouvement 2014’ (Université Paris 1 Panthéon-Sorbonne)
- 04/2014** Invited talk at the workshop ‘Structured integro-differential models in mathematical biology’ (Wolfgang Pauli Institute)

Organisation of conferences, scientific meetings and seminars

-
- 2019** Organiser of the weekly seminar series ‘Applied Mathematics Seminars’ at the School of Mathematics and Statistics of the University of St Andrews
 - 2018** Organiser of the weekly seminar series ‘Applied Mathematics Seminars’ at the School of Mathematics and Statistics of the University of St Andrews
 - 2018** Co-lead organiser of the 60th British Applied Mathematics Colloquium (more than 300 attendants)
 - 2018** Organiser of the minisymposium ‘A Snapshot of Scottish Mathematical Biology’ (BAMC2018)
 - 2017** Co-lead organiser of the Fifth Scottish PDE Colloquium (more than 40 attendants)
 - 2016** Organiser of the minisymposium ‘Evolutionary dynamics in cancer cell populations: multiscale modelling, simulation and analysis’ (ECMTB2016)

Referee activity

Acta Applicandae Mathematicae, Applied Mathematical Modelling, Biology Direct, Birkhäuser Books in Mathematics, Bulletin of Mathematical Biology, Cancer Research, Computer and Mathematics with Applications, Communications in Mathematical Sciences, Journal of Mathematical Biology, Journal of Nonlinear Science, Journal of Theoretical Biology, Mathematical Biosciences and Engineering, Mathematics and Computers in Simulation, ESAIM: Mathematical Modelling and Numerical Analysis, Mathematical Modelling of Natural Phenomena, Open Biology, Physica A: Statistical Mechanics and its Applications, Physics Letters A, PLOS Computational Biology, PLOS ONE, SIAM Journal on Mathematical Analysis (SIMA), Zeitschrift für angewandte Mathematik und Physik (ZAMP)

Teaching

-
- 2018/2019** Lecturer of the course ‘Mathematical Biology I’ (University of St Andrews)
 - 2018/2019** Coordinator and lecturer of the course ‘Mathematical Biology II’ (University of St Andrews)
 - 2018/2019** Co-coordinator and lecturer of the minicourse ‘Partial differential equation models of spatial and evolutionary dynamics in biological systems’ (Università degli Studi di Verona)
 - 2017/2018** Co-coordinator and lecturer of the PhD course ‘Differential and integrodifferential equations for evolutionary dynamics of structured populations – qualitative analysis and oncology applications’ (Università degli Studi di Trento)
 - 2017/2018** Tutor of the course ‘Mathematical modelling’ (University of St Andrews)
 - 2017/2018** Coordinator and lecturer of the course ‘Mathematical Biology II’ (University of St Andrews)
 - 2017/2018** Co-coordinator and lecturer of the minicourse ‘Mathematical models of evolutionary and spatial dynamics of cancer’ (Università degli Studi di Verona)
 - 2016/2017** Coordinator and lecturer of the course ‘Mathematical Biology II’ (University of St Andrews)
 - 2016/2017** Co-coordinator and lecturer of the minicourse ‘Reaction-diffusion equations arising in the mathematical modelling of population dynamics’ (Università degli Studi di Verona)
 - 2015/2016** Lecturer of the course ‘Mathematical modelling’ (University of St Andrews)
 - 2014/2015** Tutor of the course ‘Mathematics for life sciences’ (Université Paris-Sud)
 - 2011/2012** Lecturer of the PhD course ‘Complex systems in engineering’ (Politecnico di Torino)
 - 2011/2012** Tutor of the BSc course ‘Analisi Matematica I’ (Politecnico di Torino)

Supervision of PhD students

-
- 09/2018 - today** Supervisor (with Prof B. Perthame) of A. Poulain, Sorbonne Université
 - 07/2019 - today** Supervisor (with Prof M. Chaplain) of C. Villa, University of St Andrews
 - 07/2019 - today** Supervisor (with Prof M. Chaplain) of F. Macfarlane, University of St Andrews
 - 05/2019 - today** Supervisor (with Prof M. Chaplain) of L. Franßen, University of St Andrews

Committees

-
- 03/2019** Member of interdisciplinary PhD selection committee and interview panel
School of Medicine, University of St Andrews
 - 2019** Member of outreach committee
School of Mathematics and Statistics, University of St Andrews
 - 2018** Member of outreach committee
School of Mathematics and Statistics, University of St Andrews
 - 05/2018** Member of interdisciplinary PhD selection committee and interview panel
School of Medicine, University of St Andrews
 - 04/2017** Member of international PhD examining committee
Laboratoire Jacques-Louis Lions, Sorbonne Université and Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti, Università degli Studi di Genova
 - 2017** Member of library committee
School of Mathematics and Statistics, University of St Andrews