

CHIARA VILLA

University of St Andrews \diamond PhD student \diamond Mathematical Biology

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Website <http://www.mcs.st-and.ac.uk/~cv23/>
Languages Italian (native), English (C2), French (B1)
Programming MATLAB, Python, LaTeX, Fortran90, COMSOL, Maple, R, HTML5

EDUCATION

09/18 - Present **Phd, Mathematics**, *University of St Andrews*, St Andrews (UK)
Supervisors: Prof Mark Chaplain, Dr Tommaso Lorenzi
Funding awarded by the School of Mathematics and Statistics
09/18 - 05/19 SMSTC graduate courses (Continuum Mechanics, Numerical Methods, Mathematical Biology and Physiology)
2014 - 2018 **MMaths, Applied Mathematics**, *University of St Andrews*, St Andrews (UK)
First Class Honours awarded
Academic Prizes: The Principal's Scholarship for Academic Excellence, Dean's list
Summer 2017 Undergraduate Summer Research Internship (*University of St Andrews*)
Summer 2016 Complex Systems Biology Research Internship (*Università degli Studi di Torino*)

SELECTED CONFERENCES, WORKSHOPS AND FORUMS

May 2021 **Mathematical Biology on the Mediterranean Coast (Invited speaker)**
Sorbonne University (LJLL), Online
Apr 2021 **Mathematical Population Dynamics, Ecology and Evolution**
CIRM, Online
Aug 2020 **Society for Mathematical Biology (Awarded SMBdevBio Poster Prize 1)**
Online conference
Jun 2020 **Interplay between Oncology, Mathematics and Numerics (Invited speaker)**
Sorbonne University (LJLL), *Inserm*, *University of Poitiers*, Online conference
Jan 2020 **Postgraduate Interdisciplinary Mathematics Symposium (Organiser)**
School of Mathematics and Statistics, The Burn House, Edzell
Jan 2020 **School of Mathematics and Statistics Research Day**
School of Mathematics and Statistics, St Andrews
Dec 2019 **Scottish Mathematical Biology Forum (Invited speaker)**
Maxwell Institute for Mathematical Sciences, Edinburgh
Nov 2019 **Modeling, analysis and simulation – 50 years of Laboratoire Jacques-Louis Lions**
Sorbonne University, Paris
May 2019 **EMS Postgraduate Meeting**
Edinburgh Mathematical Society, The Burn House, Edzell
May 2019 **Computational Approaches in Mathematical Biology**
University of Dundee, Dundee
May 2019 **Research School: PDEs in Mathematical Biology: Modelling and Analysis**
London Mathematical Society & Clay Mathematics Institute, ICMS, Edinburgh
Apr 2019 **British Applied Mathematics Colloquium**
University of Bath, Bath
Jan 2019 **School of Mathematics and Statistics Research Day**
School of Mathematics and Statistics, St Andrews
Dec 2018 **Scottish Mathematical Biology Forum**
Maxwell Institute for Mathematical Sciences, Edinburgh

SELECTED TALKS

May 2021	Mathematical Biology on the Mediterranean Coast , <i>Online</i> “Mathematical modelling of early stages vasculogenesis and cell-matrix interactions”
Apr 2021	Mathematical Population Dynamics, Ecology and Evolution , <i>Online</i> “Modelling the adaptive dynamics of space- and phenotype-structured populations of cancer cells”
Apr 2021	StAMBio Internal Seminar , <i>Online</i> “A mathematical model of endothelial progenitor cell cluster formation during the early stages of vasculogenesis”
Mar 2021	SoftMech Seminar , <i>Online</i> “Mechanical models of pattern and form in biological tissues: the role of stress-strain constitutive equations”
Jun 2020	Interplay between Oncology, Mathematics and Numerics , <i>Online</i> “Modelling the emergence of pre-treatment phenotypic heterogeneity in vascularised tumours”
Dec 2019	Scottish Mathematical Biology Forum , <i>ICMS</i> “Modelling the emergence of phenotypic heterogeneity in vascularised tumours”
Nov 2019	Visit to Laboratoire Jacques-Louis Lions , <i>Sorbonne University</i> “Modelling the emergence of phenotypic heterogeneity in vascularised tumours”
May 2019	EMS Postgraduate Meeting , <i>The Burn House</i> “Models of viscoelasticity and their pattern formation potential”
Apr 2019	StAMBio Internal Seminar , <i>University of St Andrews</i> “Assessing the impact of tissue vascularisation on intratumour heterogeneity using a formal Hamilton-Jacobi approach”

TEACHING

All available student feedback data is included and reported on a scale of 1 (excellent) to 5 (poor) in the categories of Explanation (E), Organisation (O) and Availability (A).

Autumn 2020	MT2000 Computing Workshop , <i>Demonstrator, University of St Andrews</i>
Autumn 2019	MT2000 Computing Workshop , <i>Demonstrator, University of St Andrews</i>
Autumn 2019	MT2501 Linear Mathematics , <i>Tutor, University of St Andrews</i> E=1.44, O=1.33, A=1.33
Spring 2019	MT2507 Mathematical Modelling , <i>Tutor/Demonstrator, University of St Andrews</i> E=1.45, O=1.85, A=1.45
Autumn 2018	MT2503 Multivariate Calculus , <i>Tutor, University of St Andrews</i> E=1.17, O=1.5, A=1.17

PROFESSIONAL RESPONSIBILITIES

09/20 - today	School of Mathematics and Statistics , <i>StAMBio online seminars organiser</i>
09/18 - today	School of Mathematics and Statistics , <i>Mentor in Peer Mentoring scheme</i>
09/18 - 09/19	School of Mathematics and Statistics , <i>PGR Rep & PGR Exec Rep</i>
09/18 - 09/19	Scottish Mathematical Sciences Training Center , <i>UoSA Student Rep</i>