CHIARA VILLA

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

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EDUCATION

Phd, Mathematics, University of St Andrews

Sep 2018 - Present

Supervisors: Prof Mark Chaplain, Dr Tommaso Lorenzi

Research topic: Mathematical Modelling of Tumour Growth and Anti-cancer Therapy Funding awarded by the School of Mathematics and Statistics, University of St Andrews

Scottish Mathematical Sciences Training Center

Sep 2018 - Present

Graduate courses in Continuum Mechanics, Numerical Methods, Mathematical Biology and Physiology MMaths, Applied Mathematics, University of St Andrews 2014 - 2018

First Class Honours awarded

Academic Prizes: The Principal's Scholarship for Academic Excellence, Dean's list

Final project: Mathematical Modelling of Tumour-Induced Angiogenesis

Scientific High School, Istituto Internazionale Edoardo Agnelli, Torino (IT)

2009 - 2014

Diploma awarded: grade 100/100

 ${\bf Maths\ and\ Physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica",\ Maths\ matematica and\ physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica and\ physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica and\ physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica\ physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica\ physics\ extra-curricular\ activities:\ Physics\ Olympic\ games,\ "Festa\ della\ matematica",\ Maths\ matematica\ physics\ physics$

Olympic games and Archimedes' games, Maths summer internship in Bardonecchia

Study abroad, Epsom Girls Grammar School, Auckland (NZ)

Summer 2011

Award for "Highly commended in Mathematics" during mid-term exams

WORK EXPERIENCE

Bar Staff 2017 - 2018

University of St Andrews Students' Association, St Andrews (UK)

Visiting Days Student Ambassador

Spring 2018

School of Mathematics and Statistics, University of St Andrews, St Andrews (UK)

Undergraduate Summer Research Internship

Summer 2017

Stambio group, School of Mathematics and Statistics, University of St Andrews, St Andrews (UK)

Topic: Mathematical modelling of spatio-temporal evolutionary dynamics of cancer cells focusing on the phenotypic landscape of a solid tumor (Numerical simulations in Matlab)

Complex Systems Biology Research

Summer 2016

Prof Michele Caselle, Dipartimento di Fisica, Università degli Studi di Torino, Torino (IT)

Topic: Role of ohnolog genes in regulatory networks, with a focus on co-regulation and self-regulation of paralogue pairs (Data analysis in Python)

Au-pair Childcare

Summer 2015

Full-time nanny in a family with 3 kids. Genova (IT)

Group Leader in Local Community

2011 - 2014

Volunteer group leader with GiOC, Torino (IT)

Preparation and coordination of group discussions with educational and aggregative purpose, organisation and supervision of all activities in summer camps

ONLUS Volunteer

Summer 2013

Volunteer for the ONLUS foundation "Aiutare i Bambini", Araćuai (BR)

Supervision of the project to support the Assant Centre and the 45 children assigned to it from the juvenile Court, preparation of documents for long-distance adoption

Private Tutor 2010 - 2013

Private tutor in Maths and English to secondary school pupils, Torino (IT)

English Teacher Summer 2012

Primary school English teacher in a summer camp, Su Zhou (CHN)

English language lessons in three classes with pupils aged 8-9, 9-10, 10-11 respectively, afternoon afterschool management and recreational activities for primary and secondary school kids

UNIVERSITY TEACHING AND MARKING

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).

MT2000 Computing Workshop, University of St Andrews Autumn 2020

Demonstrator in Python Computing Workshop for 2000 level courses

MT2501 Linear Mathematics, University of St Andrews Autumn 2019

Tutor of two groups (11 students each) – E=1.44, O=1.33, A=1.33

MT2000 Computing Workshop, University of St Andrews Autumn 2019

Demonstrator in Python Computing Workshop for 2000 level courses

MT2507 Mathematical Modelling, University of St Andrews Spring 2018

Tutor of two groups (11 students each) – E=1.45, O=1.85, A=1.45

Demonstrator of three groups (50 students each)

MT2503 Multivariate Calculus, University of St Andrews Autumn 2018

Tutor of two groups (10-12 students each) – E=1.17, O=1.5, A=1.17

MT2504 Combinatorics and Probability, University of St Andrews Autumn 2018

Computer projects marker

TALKS

SoftMech Seminar, Online

March 2021

"Mechanical models of pattern and form in biological tissues: the role of stress-strain constitutive equations"

StAMBio Internal Seminar. Online

July 2020

"Mathematical modelling of early-stages cluster-based vasculogenesis"

Interplay between Oncology, Mathematics and Numerics, Online

June 2020

"Modelling the emergence of pre-treatment phenotypic heterogeneity in vascularised tumours"

Postgraduate Interdisciplinary Mathematics Symposium, The Burn House January 2020

"Pattern formation in linear viscoelastic materials"

School of Mathematics and Statistics Research Day, University of St Andrews January 2020

"Pattern formation in linear viscoelastic materials"

Scottish Mathematical Biology Forum, ICMS

December 2019

"Modelling the emergence of phenotypic heterogeneity in vascularised tumours"

Visit to Laboratoire Jacques-Louis Lions, Sorbonne University

November 2019

"Modelling the emergence of phenotypic heterogeneity in vascularised tumours"

EMS Postgraduate Meeting, The Burn House

May 2019

"Models of viscoelasticity and their pattern formation potential"

StAMBio Internal Seminar, University of St Andrews

"Assessing the impact of tissue vascularisation on intratumour heterogeneity using a formal Hamilton-Jacobi approach"

Postgraduate Interdisciplinary Mathematics Symposium, The Burn House January 2019

"A snapshot of Mathematical Biology"

MT234 Research and Party, Outreach event, University of St Andrews

November 2018

"Cancer modelling: towards virtual biopsies"

Master thesis defence, University of St Andrews

April 2018

"Mathematical modelling of tumour-induced angiogenesis"

Undergraduate Summer Research Conference, University of St Andrews November 2017

"Dissecting cancer through mathematics: how the tumour microvasculature and microenvironment

Reading Party, University of St Andrews

"Mathematical modelling of avascular tumour growth"

CONFERENCES, WORKSHOPS AND FORUMS

Online conference Society for Mathematical Biology & European Society for Mathematical and Theor Biology (Cancelled due to COVID-19) Mini Symposium invited speaker, LMS ECR Travel Grant awarded (£500) Interplay between Oncology, Mathematics and Numerics (Invited speaker) Sorbonne University (LJLL), Inserm, University of Poitiers, Online conference Postgraduate Interdisciplinary Mathematics Symposium (Organiser) School of Mathematics and Statistics, The Burn House, Edzell School of Mathematics and Statistics, St Andrews Scottish Mathematical Biology Forum (Invited speaker) Maxwell Institute for Mathematical Sciences, ICMS, Edinburgh Modeling, analysis and simulation Laboratoire Jacques-Louis Lions, Sorbonne University, Paris EMS Postgraduate Meeting Edinburgh Mathematical Society, The Burn House, Edzell Computational Approaches in Mathematical Biology University of Dundee, Dundee Research School: PDEs in Mathematical Biology: Modelling and Analysis London Mathematical Society & Clay Mathematics Institute, ICMS, Edinburgh British Applied Mathematics Colloquium University of Bath, Bath Postgraduate Interdisciplinary Mathematics Symposium School of Mathematics and Statistics, The Burn House, Edzell School of Mathematics and Statistics, St Andrews Scottish Mathematical Biology Forum Decembe Maxwell Institute for Mathematical Sciences, Edinburgh Scottish Mathematical Training Center Symposium Scottish Mathematical Training Center Symposium SMSTC, Perth	
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School of Mathematics and Statistics, St Andrews	

SKILLS AND ACTIVITIES

Languages

Italian – native speaker

English – advanced (C2): CAE–C1 (03/13) and TOEFL (12/13) certificates

French – intermediate (B2): DELF B1 (08/12) certificate and attendance of several intensive courses in Torino (Alliance Française), Nice (International House) and St Andrews (evening language courses) Brazilian Portuguese – base (A2): attendance of a course with mother tongue teacher

Programming and Computer Skills

Proficient: MATLAB, Python, LaTeX, Fortran90, COMSOL

Basic: Maple, R, HTML5

Microsoft Office tools (ECDL Full Certificate), video editing (Movie Maker, AVS Video Editor)

Personal interests

Acoustic guitar, singing, photography, travelling, swimming, hip-hop dancing, figure ice-skating, yoga Outreach activity

Piscopia Society outreach: testimonial to encourage female/non-binary students considering a PhD

PROFESSIONAL RESPONSIBILITIES

School of Mathematics and Statistics, StAMBio online seminars organiser

Sep 2020 - today

School of Mathematics and Statistics, Mentor in Peer Mentoring scheme

Sep 2018 - today

School of Mathematics and Statistics, PGR Rep & PGR Exec Rep

Sep 2018 - Sep 2019

Scottish Mathematical Sciences Training Center, UoSA Student Rep

Sep 2020 - today

Sep 2018 - Sep 2019