

# CHIARA VILLA

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**Website** <http://www.mcs.st-and.ac.uk/~cv23/>  
**Date of Birth** 10/05/1995  
**Citizenship** Italian

*Third year PhD student working in the Mathematical Biology group at the University of St Andrews. Reliable, well-organised, determined and hard working. Particularly interested in mathematical modelling of biological systems, focussing on analytical and numerical investigation of systems of PDEs describing tumour development and vascular network formation.*

## EDUCATION

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09/18 - Present **Phd, Mathematics**, *University of St Andrews*, St Andrews (UK)  
Mathematical Biology, funded by the School of Mathematics and Statistics  
SMSTC graduate courses: Continuum Mechanics, Numerical Methods, Mathematical Biology and Physiology  
PGR Rep, PGR Executive Rep, SMSTC UoST Rep, Mentor in Peer Mentoring scheme

2014 - 2018 **MMaths, Applied Mathematics**, *University of St Andrews*, St Andrews (UK)  
First Class Honours awarded, The Principal's Scholarship for Academic Excellence, Dean's list

2009 - 2014 **Scientific High School**, *Istituto Internazionale Edoardo Agnelli*, Torino (IT)  
Diploma awarded: grade 100/100

Summer 2011 Study abroad: *Epsom Girls Grammar School*, Auckland (NZ)

## WORK EXPERIENCE

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09/18 - Present **Organisation of Conferences, Seminars, Outreach events**  
*Administration and organisation of schedules, speakers and venues*, St Andrews (UK)

Autumn 2020 StAMBio Seminar - *Group meetings to discuss research methods and ideas within StAMBio group members and collaborators*

Winter 2019 Postgraduate Interdisciplinary Mathematics Symposium - *Research getaway to promote collaboration between PhD students in Statistics, Pure and Applied mathematics*

Autumn 2018 MT234 Research and Party - *Outreach event within the School of Mathematics and Statistics to promote research and staff-student dialogue*

09/18 - Present **Teaching and Marking**  
*School of Mathematics and Statistics, University of St Andrews*, St Andrews (UK)

Autumn 2020 MT2000 Computing Workshop - Demonstrator

Autumn 2019 MT2501 Linear Mathematics - Tutoring

Autumn 2019 MT2000 Computing Workshop - Demonstrator

Spring 2019 MT2507 Mathematical Modelling - Tutoring/Demonstrating

Autumn 2018 MT2503 Multivariate Calculus - Tutoring

Autumn 2018 MT2504 Combinatorics and Probability - Marking of computer projects

2017 - 2018 **Bar Staff**  
*University of St Andrews Students' Association*, St Andrews

Spring 2018 **Visiting Days Student Ambassador**  
*School of Mathematics and Statistics, University of St Andrews*, St Andrews

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|-------------|---|
| Summer 2017 | <b>Undergraduate Summer Research Internship</b><br><i>StAMBio, School of Mathematics and Statistics, University of St Andrews, St Andrews</i> |
| Summer 2016 | <b>Complex Systems Biology Research</b><br><i>Prof M. Caselle, Dipartimento di Fisica, Università degli Studi di Torino, Torino (IT)</i>      |
| Summer 2015 | <b>Au-pair Childcare</b><br><i>Full-time nanny in a family with 3 kids, Genova (IT)</i>   |
| 2011 - 2014 | <b>Group Leader in Local Community</b><br><i>Volunteer group leader with GiOC, Torino (IT)</i>  |
| Summer 2013 | <b>ONLUS Volunteer</b><br><i>Volunteer for the ONLUS foundation “Aiutare i Bambini”, Araçuaí (BR)</i>   |
| 2010 - 2013 | <b>Private Tutor</b><br><i>Private tutor in Maths and English to secondary school pupils, Torino (IT)</i>                                     |
| Summer 2012 | <b>English Teacher</b><br><i>Primary school English teacher in a summer camp, Su Zhou (CHN)</i>   |

## SKILLS AND ACTIVITIES

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### 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

Brazilian Portuguese – basic (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

### Talks

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| SoftMech Seminar, <i>University of Glasgow (online)</i>                              | March 2021    |
| StAMBio Seminar, <i>University of St Andrews (online)</i>                            | July 2020     |
| Interplay between Oncology Mathematics and Numerics, <i>Videoconference (online)</i> | June 2020     |
| Postgraduate Interdisciplinary Mathematics Symposium, <i>The Burn House, Edzell</i>  | January 2020  |
| School of Mathematics and Statistics Research Day, <i>University of St Andrews</i>   | January 2020  |
| Scottish Mathematical Biology Forum, <i>ICMS, Edinburgh</i>                          | December 2019 |
| Visit to Laboratoire Jacques-Louis Lions, <i>Sorbonne University, Paris</i>          | November 2019 |
| EMS Postgraduate Meeting, <i>The Burn House, Edzell</i>                              | May 2019      |
| StAMBio Seminar, <i>University of St Andrews</i>                                     | April 2019    |
| Postgraduate Interdisciplinary Mathematics Symposium, <i>The Burn House, Edzell</i>  | January 2019  |
| MT234 Research and Party, Outreach event, <i>University of St Andrews</i>            | November 2018 |
| Master thesis defence, <i>University of St Andrews</i>                               | April 2018    |
| Undergraduate Summer Research Conference, <i>University of St Andrews</i>            | November 2017 |
| Reading Party, <i>University of St Andrews</i>                                       | February 2017 |