

Giancarlo Antonino Antonucci

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EXPERIENCE

COMPUTATIONAL SCIENTIST at <i>UKAEA</i> ◇ Culham, England, United Kingdom	2022.09–now
RETAINED LECTURER at <i>Jesus College</i> ◇ Oxford, England, United Kingdom	2022.01–2022.06
COLLEGE TUTOR at <i>St Anne's College</i> ◇ Oxford, England, United Kingdom	2019.10–2020.06
TEACHING ASSISTANT & TUTOR at <i>Oxford University</i> ◇ Oxford, England, United Kingdom	2018.10–2019.10
CO-FOUNDER & R&D DIRECTOR at <i>Natwork</i> ◇ Turin, Italy	2017.11–2019.04
RESEARCHER at <i>UKAEA</i> ◇ Culham, England, United Kingdom	2018.07–2018.10
RESEARCHER at <i>DSTL</i> ◇ Porton Down, England, United Kingdom	2018.04–2018.07
INTERN at <i>Albright IP Ltd</i> ◇ Cheltenham, England, United Kingdom	2016.11–2016.12
TEACHING ASSISTANT at <i>Turin Polytechnic University</i> ◇ Turin, Italy	2015.10–2016.06

EDUCATION

DPHIL (PHD) in Applied Mathematics at <i>Oxford University</i> ◇ Centre for Doctoral Training in Industrially Focused Mathematical Modelling ◇ Thesis: <i>Solving Chaotic ODEs with Time-Parallel Algorithms</i>	2017–2025
MSc in Mathematical Modelling and Scientific Computing at <i>Oxford University</i> ◇ Thesis: <i>Iterative Solution of Evolutionary PDEs via All-at-Once Methods</i>	2016–2017
BENG in Physical Engineering at <i>Turin Polytechnic University</i> ◇ Thesis: <i>Application of the Numerov algorithm to the Hartree Model for the Helium Atom</i>	2013–2016

PUBLICATIONS

FINITE-TIME CONVERGENCE GUARANTEES FOR TIME-PARALLEL ALGORITHMS ◇ In preparation	2026
A MOVING-WINDOW ALGORITHM FOR THE TIME PARALLELIZATION OF CHAOTIC SYSTEMS ◇ In preparation	2026
ESTIMATING THE RISK OF SATELLITE COLLISIONS IN DENSELY POPULATED ORBIT SHELLS ◇ DOI: 10.33774/miir-2021-vog46	2020

MULTISPECTRAL SNAPSHOT DEMOSAICING VIA NON-CONVEX MATRIX COMPLETION ◇ DOI: 10.1109/DSW.2019.8755561	2019
LIMITS ON SIMULTANEOUS TRANSMIT AND RECEIVE ◇ DOI: 10.33774/miir-2022-zhvsW	2019
EVALUATION OF THE ACCURACY OF A COMPUTER-VISION BASED CROWD MONITORING SYSTEM ◇ URL: miis.maths.ox.ac.uk/miis/755	2018

CONFERENCES & WORKSHOPS

14TH WORKSHOP ON PARALLEL-IN-TIME (PINT) INTEGRATION (INVITED SPEAKER) <i>Edinburgh, Scotland, United Kingdom</i>	2025
EUROPEAN STUDY GROUP WITH INDUSTRY (ESGI) 162 <i>Leeds, England, United Kingdom</i>	2020
8TH WORKSHOP ON PARALLEL-IN-TIME (PINT) INTEGRATION (INVITED SPEAKER) <i>Bielefeld, Germany</i>	2019
EUROPEAN STUDY GROUP WITH INDUSTRY (ESGI) 145 <i>Cambridge, England, United Kingdom</i>	2019
EUROPEAN STUDY GROUP WITH INDUSTRY (ESGI) 138 <i>Bath, England, United Kingdom</i>	2018
UK GRADUATE MODELLING CAMP <i>Oxford, England, United Kingdom</i>	2018

ADDITIONAL EDUCATION

OXFORD MACHINE LEARNING SUMMER SCHOOL <i>Oxford University</i>	2025
SUMMER SCHOOL IN PLASMA PHYSICS <i>UKAEA</i>	2022
OXFORD SUMMER SCHOOL IN ECONOMIC NETWORKS <i>Oxford University</i>	2017
SUMMER SCHOOL IN MATLAB FOR SCIENTIFIC AND PARALLEL COMPUTING <i>Palermo University</i>	2015
SUMMER SCHOOL IN MACHINE LEARNING AND BIG DATA ANALYSIS <i>Palermo University</i>	2015

AWARDS & SCHOLARSHIPS

ESGI 162 BEST STUDENT CONTRIBUTION PRIZE	2020
ST ANNE'S GRADUATE DEVELOPMENT SCHOLARSHIP	2019
ST ANNE'S GRADUATE STUDENT TRAVEL GRANT	2019
8TH PINT WORKSHOP TRAVEL GRANT	2019
IMA BEST PRESENTATION PRIZE	2018
EPSRC INFoMM CDT SCHOLARSHIP	2017
ANNE COBBE MEMORIAL FUND AWARD	2017

TEACHING

ST ANNE'S COLLEGE**2019–2020**

- ◇ Tutor - Calculus of Variations
- ◇ Tutor - Special Relativity
- ◇ Tutor - Numerical Analysis
- ◇ Tutor - Quantum Theory
- ◇ Tutor - Constructive Mathematics
- ◇ Tutor - Continuous Mathematics
- ◇ Teaching Assistant - Introductory Calculus
- ◇ Teaching Assistant - Geometry

OXFORD UNIVERSITY**2018–2020**

- ◇ Tutor - Numerical Linear Algebra
- ◇ Teaching Assistant - Finite Element Method for Partial Differential Equations
- ◇ Teaching Assistant - Numerical Solution of Differential Equations I

TURIN POLYTECHNIC UNIVERSITY**2015–2016**

- ◇ Teaching Assistant - Numerical Calculus and Scientific Computing
- ◇ Teaching Assistant - Modelling and Numerical Methods
- ◇ Teaching Assistant - Mathematical Analysis II
- ◇ Teaching Assistant - Linear Algebra and Geometry
- ◇ Teaching Assistant - Mathematical Analysis I

REFERENCES

Available on request