

PIETRO LIO' - CURRICULUM VITAE 2019

Present Appointment: Full Professor in Computational Biology at Department of Computer Science and Technology (Computer Laboratory), University of Cambridge. Address: 5 JJ Thomson Avenue, Cambridge CB3 0FD, UK Tel (office): 1223 763764, Email: Pietro.lio@cl.cam.ac.uk; pl219@cam.ac.uk; pietro.lio2017@gmail.com; Skype: [pietro.lio](https://www.skype.com/user/pietro.lio)
WebPage: www.cl.cam.ac.uk/~pl219

-Family: Married with one daughter.

Other Affiliations:

I am member of - the Integrate Cancer Medicine Institute, the committee of MPhil in Computational Biology (Stakeholder Group for the CCBI) , steering committee of Cambridge BIG data, steering committee VPH-UK (Virtual Physiological Human), Fellow of Clare Hall College (Cambridge).

Studies

- Liceo Scientifico N. Copernico, Prato, Italy (completed 1981). Certificate with maximum marks (60/60) and special award.
- B.Sc levels Electronic Engineering, Biology (1991), laurea 110 and laude, at University of Firenze, Italy.
- Doctorate (equivalent to PhD) in Theoretical Genetics, University of Pavia, Italy (completed 1995).- Doctorate (equivalent to a PhD) in Engineering (Non Linear Dynamics and Complex Systems), Faculty of Engineering, University of Firenze, Italy (completed in 2007); -MA, Cambridge 2015.

Positions held:

- Lecturer (part time Lecturer), Chemistry Dept, University Firenze; course held in years: 1988,89,90; course content: MonteCarlo (MCMC) simulations and data analysis of ESR and NMR spectroscopy; 10-15 hours teaching per year (Chair held by Prof Silvano Bordi).
- Research Associate in Statistical Epidemiology (group directed by Prof Newton Morton), Princess Anne Hospital, University of Southampton. Project: parametric and nonparametric methods in complex inheritance (1996-1997).
- Research Associate, Dept. of Genetics, Cambridge (Group leader Dr Nick Goldman); Project: Mathematical modeling of sequence evolution and protein structure (1998-2000).
- Visiting Professor. Bioinformatics. University Statale of Milano (1998). Course on Bioinformatics.
- Research Associate Univ. Cambridge Dept. of Zoology, Cambridge (Group Leader Dr. N. Goldman), Project: Modeling sequence evolution and protein structure (2000-2001).
- Research associate at the European Bioinformatics Institute (2002).
- Lecturer in Bioinformatics algorithms at the Computer Laboratory, University of Cambridge and affiliated Faculty member of the Centre for Computational Biology, Department of Mathematics, University of Cambridge (2004).
- Appointed Director of studies of Computer Science of Fitzwilliam College (2004).
- Royal Society Visting fellow at Fields Institute , Toronto (2003).
- Promoted Senior Lecturer, The Computer Laboratory, University of Cambridge (2007). -Promoted Reader in Computational medicine at the Computer Laboratory, University of Cambridge (2013).
- Visiting professor at the University of Padova (2017);

-Promoted Full Professor in Computational Biology (2018).

Awards:

2018 Award Certificate from the Italian Bioinformatics Society (Turin, 2018);
2016 BYRA first prize at ISEM (The International Society for Ecological Modelling Global Conference) 2016 and the MCED (Modelling Complex Ecological Dynamics) 2016 Awarded second prize;
2013 Lagrange Fellowship. ISI Turin; several Best paper awards at various Conferences (for example at Turing Centenary Conference, Manchester 2012).

-Recent Grants (2014-2018; * active grants): *Cancer Data Integration (Cambridge University and Mark Foundation); *MICA: Mental Health Data Pathfinder; *H2020 Propagating The continuum between healthy ageing and idiopathic Parkinson Disease within a propagation perspective of inflammation and damage: the search for new diagnostic, prognostic and therapeutic targets. Start- Forum for Rheumatology. From October 2015; EU H2020 Metable Advanced bioinformatics for genome and metagenome analyses; EU Mimomics (Multi omics integration statistics), MissionT2D: developing and validating an integrated, multilevel patient-specific model for the simulation and prediction of metabolic and inflammatory diseases. Epihealthnet: improve health of the human population by understanding the mechanisms and pathways in early development, with special emphasis on epigenetic changes and developmentally relevant metabolic signaling.

Current Academic Contributions: External Examiner at the University of Newcastle for the MSc Bioinformatics, MSc Computational Neuroscience and Neuroinformatics, MSc Computational Systems Biology; University of Cambridge Steering committee Big Data; University of Cambridge Computational Biology Steering Committee; Member of the Student Complaints and Appeal Committee. Member of Panel for Professorships.

Teaching (current) Bioinformatics Algorithms -Part II -Computer Laboratory; Biomedical Informatics -MPhil in Advanced Computing, Computer Laboratory, Machine Learning and Algorithms for Data Mining - MPhil in Advanced Computing, Computer Laboratory; Past Courses: Mathematical Modeling of Disease Comorbidities - MPHIL Comp Biology, CCBI, Dept of Mathematics (Lent term 2016).

Supervision: 13 PhD students have been awarded the PhD; 23 MPhil students supervised (MPhil in advanced computing; Part III systems biology; MPhil in computational Biology; Part 3 Physics).

Publications: > 400 publications in peer reviewed journals and international conference; H-index = 46 (Google Scholar); i10-index=158; >10000 citations.

<https://scholar.google.co.uk/citations?user=3YrWf7EAAAAJ&hl=en&oi=ao>
Listed in www.topitalianscientists.org/Top_italian_scientists_VIA-Academy.aspx

Orcid: <https://orcid.org/0000-0001-8956-9815>

Public Engagement: active in science communication, and engage often with the media and in public science events (science cafe', European Researchers' Night, Coding Academy, etc).