

Curriculum Vitae

PERSONAL DETAILS

Name: Luigi Preziosi
Date of birth: Naples, October 2nd, 1961.
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HIGHER EDUCATION

- Master degree in Mathematics cum laude at the University of Naples taken on July 24th, 1984
- Ph.D. in Mechanics with minor in Mathematics at the University of Minnesota taken on Dec 31th, 1986
- Ph. D. in Mathematics at the University of Naples taken on Oct 31th, 1989

UNIVERSITY POSITIONS

- 1984–1986: Research/Teaching Assistant
in Mechanics and Fluid Mechanics at the University of Minnesota
- 1989–1992: Researcher
in Mathematical Physics at the Politecnico di Torino
- 1992-2000: Associate professor
in Mathematical Physics at the Università della Calabria and then at the Politecnico di Torino
- 2000-today: Full professor of Mathematical Physics at the Politecnico di Torino
- 2007-today: President of the School of Engineering Mathematics

PATENT

- Spinning rod tensiometer, an instrument to measure the interfacial tension between immiscible liquids, (U. S. Patent 4644782).
- A deflecting module for an anti-sand barrier, a barrier thus obtained and a protection method from windblown sand (PCT/IT2015/000129)

PUBLICATIONS

- 5 books and 4 edited books
- 40 book chapters
- guest editor of a special issue of the Journal of Mathematical Biology on Computational Cell Biology (vol. 58(1-2), pagg.1-322, (2009))
- more than 100 articles in peer-reviewed journals.
Among them, 90 appear on ISI-Web-of-Science, with h-index=21, summing up to more than 2500 citations (without self-citations). Averaging, more than 30 citations per paper.

AWARDS, CONSULTING, BOARDS

- Consultant on “Metal casting” at the Dept. Aerospace Engineering and Mechanics, University of Minnesota in 1987.
- IMA fellowship and consultant on “Lubricated pipelining problems” at the Institute for Mathematics and Application, University of Minnesota in 1989.
- MSI award at the Minnesota Supercomputer Institute in 1994.
- Consultant on “Crowd Dynamics and Security” for the Institute for the Innovation and the Territorial Systems (SITI) from 2005 to 2006.

- Consultant for RGI for the definition of the Research and Development plan in the field of bio-informatics from 2007 to 2009. The result of this activity was the foundation of the company Bio-Digital Valley.
- Consultant for Italferr on “Sand remediation strategies”

Member of the following international scientific societies:

- Fellow of the Institute of Mathematics and Application (IMA)
- European Society for Mathematical and Theoretical Biology (ESMTB)
- Society for Mathematical Biology (SMB)
- Society for Industrial and Applied Mathematics (SIAM)

Member of the Scientific Boards of the following societies:

- European Society for Mathematical and Theoretical Biology (ESMTB) from 2002 to 2008.
- Centro Interuniversitario di Matematica Applicata alla Biologia (CIMAB) since 2006 (President since 2010)
- Gruppo Nazionale di Fisica Matematica from 2008 to 2012
- Coordinator of the Activity Group of the Italian Society of Industrial and Applied Mathematics (SIMAI) on Life and Environmental Sciences since 2009

Member of the Advisory Editorial Board of the book series:

- Lecture Notes in Mathematical Modelling in the Life Sciences (Springer)

Associate editor of the international journals:

- Journal of Theoretical Biology
- Mathematical Medicine and Biology: A Journal of the IMA
- Networks and Heterogeneous Media
- Bollettino dell'Unione Matematica Italiana B

Article reviewer

Nature Reviews Cancer, Proceedings of the National Academy of Sciences, Physical Review Letters, Mathematical Models and Methods in Applied Sciences, Journal of Mathematical Biology, Bulletin of Mathematical Biology, Nonlinearity, Discrete and Continuous Dynamical Systems B, European Journal of Mechanics A and B, International Journal of Engineering Science, Physica D, The European Physical Journal E, New Journal of Physics, Physical Review E, Mechanics of Materials, Mathematical and Computer Modelling (in addition to the journals above).

Book reviewer

Springer, Birkhauser, CRC Press, Oxford University Press, Cambridge University Press, World Scientific.

Grant reviewer

European Research Council (ERC, EU), National Institute of Health (NIH, US), National Science Foundation (NSF, US), National Science Foundation (NSF, Israel), Agence Nationale de Recherche (ANR, France), Deutsche Forschungsgemeinschaft (DFG, Germany), Netherlands Organisation for Scientific Research, Natural Sciences and Engineering Research Council of Canada, Canadian Institutes of Health Research, INRIA.

Main fundings

- Contact Person of the Research Training Networks “Using Mathematical Modelling and Computer Simulation to Improve Cancer Therapy” (RTN-2000-00105) and “Modelling, Mathematical Methods and Computer Simulation of Tumour Growth and Therapy” (MRTN-2004-503661).
- Member of the Governing Board of the Starting Independent Research Grant 202680 “RareNoise”.
- Tutor of the Reintegration Grant 256605 DERMA on “DetEction of skin canceR: integrating Morphoelastic theories in biomechanical Analysis”.
- OCCAM project (University of Oxford) on “Mathematical Modelling of Lymphangiogenesis” (2012-2103).

- National coordinator of projects of Relevant National Interest (PRIN) for the years 2002-2003, 2004-2005, 2010-2011 and local coordinator for the years 2008-2009.