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|    | **Giovanni Imponente** |
| Date and place of birth:Languages: Ph.D.: | 30.12.1975, Rome (Italy) Italian (native), English (fluent), French (basic)Physics, from University “Federico II”, Naples, Dec. 2003 |

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| ***Academic qualification*** |
| 2004 Dec - Nov 2007  | Post Doctoral Research Fellow, CERN – European Organization for Nuclear Research, Geneve, CH Centro Studi e Ricerche “Enrico Fermi”, Roma – Italy Modeling of novel methods for description and analysis of cosmic showers |
| 2004-2008  | Post Doctoral Fellow, School of Mathematical Sciences, Queen Mary, Univ. of London, UK, visitingProperties of Hamiltonian systems on Riemannian and pseudo-Riemannian manifolds  |
| 2000-2003 (Dec 19, 2003)  | PhD in Fundamental and Applied Physics, University “Federico II”, Napoli, Italy, (**granted** by EU) highest score, Thesis published “Fingerprints of the Very Early Universe”. Analysis of the Einstein equations and differential geometryTutor: Prof. G.Marmo, G.Montani; referee: Prof.G.Esposito |
| 2002-2003  | Visiting Researcher, School of Mathematical Sciences, Queen Mary, University of London, UK Chaos in dynamical systems applied to Einstein equations |
| 1994/95-99/2000 (Dec 15, 2000)  | Laurea “On the chaos covariance in the Mixmaster model”, Physics Department Università “La Sapienza”, Roma, Italy, **110/110**. Thesis published Tutor: Dr. G.Montani; Referee: Prof. G.Parisi |
| 1996 Jul-Aug  | **Visiting summer student** - Stanford University, Stanford, CA.Gravity Probe-B Program, Satellite development, Stanford Univ., Stanford, CA, USA **granted** by Stanford University  |

***Professional and scientific activity***

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| 2012-present | **Senior Design Engineer,** ASML, VelhdovenDevelopment and Engineering Department for TwinScan. Lens modeling and system optimization, simulation and analysis of data from proto-machines. Feasibility studies for future lenses and optical column systems. |
| 2007-2012 | **System Analyst - Researcher**, DUNE Srl, Rome, Italy (www.dune-sistemi.com)Applied multidisciplinary research high impact technologies: wireless communications, electrical engineering, smart grids, multilevel interactions, alarm and fault propagation. Technical tasks: mathematical analysis, modeling and simulation of complex systems. Simulations and code written in MatLab.Delivery of projects in FP7-ICT EC Programs, algorithm development for heterogeneous topics, from complex systems to telecommunications to energy.  |

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| 2004-2007 | **Researcher**, European Organization for Nuclear Research (CERN) – Geneva, CH**Experiment** “*EEE – Extreme Energy Events”* (INFN and CERN)Assessment of theoretical foundations and precision measurements of a large, distributed, experimental apparatus, from commissioning to prototyping and final set up.  |
| 2003 – 2005 | **Visiting Researcher**, School of Math. Sciences at Queen Mary, Univ. of London (UK)Publications: one **book** (World Scientific, 2011), one **invited review article**, 18 articles on International Journals, and 11 proceedings or books chapters.Since 2004, **Scientific Referee** of *Physica A*, *International Journal of Modern Physics D, IEEE VTT*. |

***Awards***

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| 20042005 | “*John S. Bell” Diploma*, for **new talents**, “*Best Scientific Secretary” Award,*World Federation of Scientists - Gerardus ‘t Hooft and Antonino Zichichi.  |

**Advanced Schools, Conferences, Talks**

Since 1999 I participated to 12 International Advanced Schools on several topics in Physics, Astrophysics and Astronomy, receiving awards, giving talks and attending advanced lectures.

Since 1997, I attended more than 35 International Conferences, Schools, delivering talks in Italy and abroad (USA, Brazil, France, United Kingdom, South Korea, Mexico, Greece).

***Scholarships, grants and distinctions***

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| 2005-2007 | Fellowship Centro “E.Fermi”, Rome, Italy |
| 2004-2005 | Post Doctoral Grant Accademia Nazionale dei Lincei / Royal Society, UK  |
| 2005 July | Royal Astronomical Society (UK), CR Barber Trust Fund (Institute of Physics, UK) |
| 2004 | Post Doctoral Grant Fondazione “Angelo Della Riccia” |
| 2000-2003 | PhD Grant by “Federico II” University and European Community Funds |
| 1995-1996 1999-2000 | Student Grant, Physics Department, University “La Sapienza”, Roma, Italy Student Grant, CICS, Centro Interdipartimentale di Calcolo Scientifico  |
| 1996, Jul-Aug | Grant by Stanford University to visit GP-B Program, Stanford, USA |

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| ***Membership of international bodies and learned societies*** |

- Junior Member of the Newton Institute, Cambridge, UK;
- Fellow of the Royal Astronomical Society, UK;

- Member of the Institute of Physics, UK;
- International Society of General Relativity and Gravitation;
- Euroscience; Società Italiana di Fisica - S.I.F. (Italian Physical Society)