CURRICULUM VITAE

**Dr DOMENICO VICINANZA**

**Senior Lecturer and Course Leader MSc Data Science**

**Academic qualifications at HE level:**

-  **Postgraduate Certificate (PGCert) in Learning and Teaching (Higher Education), 2016,** Anglia Ruskin University, Cambridge, UK

-  **Specialist Certificate in Orchestration for Cinema and Television, 2015,** Berklee College of Music (GPA 4.0, 100%)

-  **Doctor of Philosophy (PhD) in Physics, 2002***.* University of Salerno, Italy. Full Time, 1998-2002.

-  **MSc in Physics** (**Laurea cum Laude) 100% with distinction, 1998.** University of Salerno, Italy. Full Time, 1994-1998.

**Professional qualifications:**

**Fellow of the Higher Education Academy, Certificate number PR103062,**

**Full member of the Institute of Electrical and Electronics Engineers (IEEE)**

**Full member of the Audio Engineering Society**

**ITILv3 (License ITIL/022971 January 2009) certified.**

**Relevant employment history:**

-  02.2015 - present: **Senior Lecturer,** Anglia Ruskin University, UK.

-  01.2008 – present: **Senior Research Engagement Officer,** GÉANT, Cambridge, UK

-  02.2014–08.2014: **Part Time Hourly Paid Lecturer in Audio Technology,** Anglia Ruskin University, UK.

-  10.2013-11.2013: **External Lecturer in Circuits and Algorithms for the Synthesis and Processing of Sound**, Conservatory of Avellino, Italy.

-  03.2012-11.2012: **External Lecturer in Circuits and Algorithms for the synthesis and processing of Sound, Acoustics and Architectural Acoustics, Psychoacoustics, Web technologies for computer music, Multimedia,** Conservatory of Avellino, Italy

-  01.2009-11.2009: **External Lecturer in Sound Synthesis and Acoustics,** Conservatory of Salerno, Italy.

**Relevant HE teaching experience:**

-  Digital Signal Processing and Internet of Things, MSc Level

-  Microprocessor Systems Design, Embedded Systems, Introduction to PIC processors, BEng Level

-  Audio Technology , Sound Synthesis, Acoustics, Psychoacoustics, Architectural Acoustics, Circuits and Algorithm for Sound Processing, Multimedia, Web technology: MA and BA in Sound Engineering.

-  Sound synthesis and Mathematics of Synthesis of Sound: MSc in Computer Science

-  PhD Supervision (3 PhD students)

-  Examiner for MPhil in Electronics (Anglia Ruskin University), 2016

**Research interests and experience:**

-  **Research interests:**

-   Human movement science, biomechanics, nonlinear time series analysis, data science, non-linear dynamical systems, data sonification

-  **Programme committee:**

-   Network Performing Art Production Workshop 2015, Member of the Programme Committee, 2019 Chair of the programme committee

-   The Networking Conference, TNC2018, Member of the programme committee (the largest research and education network conference in the world)

-   Sound and Music Computing: Founder and member of the programme committee since 2010

-   2005 Co-organizer and member of the Scientific Committee of the Sound and Music Computing International Conference 2005 (SMC 2005), www.smc05.unisa.it, Salerno, Italy

-   2005 Co-organizer of the ”Night of Music and Sounds” (Notte della Musica e dei Suoni) at the Istitute Francais de Naples, Ambassade de France en Italie, program at: http://www.france-napoli.it

-   2003-2004 Co-organizer of the ”Musiche Inaudite”, Computer Music festival www.musica.unisa.it

-  **Research achievements:**

-     R&D of ALICE Time-of-Flight detector at CERN, one of the fastest time-of-flight detectors (using Multi-gap Resistive Plate Chambers)

-     Reconstruction of an ancient musical instrument using archaeological information and physical modelling leading a multi-disciplinary research team called ASTRA (Ancient instruments Sound/Timbre Reconstruction Application). Interviewed by The Times and by BBC Radio 4. The results have been demonstrated to the European Commission at the EU ICT conference in Lyon (25/11/2008)

-     Scientific and artistic work commissioned by CERN in Geneva and NASA

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-  **Published Papers, 132 listed on SPIRES/PubMed**. *Some are:*

-   Williams, G. K., & Vicinanza, D. (2018). Coordination in gait: Demonstration of a spectral approach. *Journal of sports sciences*, *36*(15), 1768-1775.

-   Vicinanza, Domenico, Karl M. Newell, Gareth Irwin, Lee Smith, and Genevieve KR Williams. "Limit cycle dynamics of the gymnastics longswing." *Human movement science* 57 (2018): 217-226.

-   Sánchez, G. F. L., Williams, G., Aggio, D., Vicinanza, D., Stubbs, B., Kerr, C., ... & Smith, L. (2017). Prospective associations between measures of gross and fine motor coordination in infants and objectively measured physical activity and sedentary behavior in childhood. *Medicine*, *96*(46).

-   Vicinanza D., Achard P. et al: “Search for Charged Higgs bosons: Combined Results Using LEP Data By ALEPH and DELPHI and L3 and OPAL and LEP Collaborations” Eur.Phys.J. C73 (2013) 2463.

-   Vicinanza D: “Intercontinental Multi-Domain Monitoring for LHC with perfSONAR”, J.Phys.Conf.Ser. 396 (2012) 042060.

-   Vicinanza D., Duarte A., Nyczyk P., Retico A.: “Monitoring the EGEE/WLCG grid services” J.Phys.Conf.Ser. 119 (2008) 052014.

**Awards / Prizes / Prestige**

-   TOYP (The Outstanding Young Persons) 2009 for the category Research, by the Junior Chamber International Italy and nominated for the world TOYP prize.

-   Robert Hofstadter Awards at International School of Particle Physics Erice (2000)

-   Best Original Experimental Work at International School of Particle Physics Erice (2001)

**Invited speaker/keynote speaker (selection)**

-   Invited keynote speaker at the IEEE Industrial Symposium on Industrial Electronics,  (June 2017), Edinburgh, Scotland

-   Invited keynote speaker for the public conference keynote at the ICTR-PHE, Physics for Health in Europe Conference, Geneva, Switzerland (February 2016)

-   Invited Speaker and Composer at the 110th annual dinner at Waldorf Astoria NY at Explorer's Club (March 2014).