

CURRICULUM VITAE

PERSONAL DATA

BRUNO CAMPANELLI

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EDUCATION

- ✦ High School Diploma from Liceo Classico Dante Alighieri, Latina, Italy, 2003, final grade 95/100
 - ✦ Laurea Triennale (Bachelor's Degree) in Physics from *Sapienza Università di Roma*^o, academic year 2007/2008, final grade 104/110
 - ✦ Laurea Specialistica (Master's Degree) in Physics from *Sapienza Università di Roma*^o, academic year 2011/2012, final grade 110/110 cum laude (with honours)
Thesis title: Random Field Ising Model on Social Complex Networks
Supervisors: Prof. Vittorio Loreto, Dr. Vito D. P. Servedio
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LANGUAGES

- ✦ Italian (mother language)
 - ✦ English (advanced)
 - ✦ Spanish (basic)
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COMPUTER SKILLS

- ✦ Scientific programming (agent-based modelling, data analysis and visualization) in C++ and Python
 - ✦ \LaTeX
 - ✦ Usage of major operating systems (Linux-based, Windows, macOS) and office packages
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INVOLVEMENT IN RESEARCH PROJECTS AND RESEARCH POSITIONS

- ✦ Data-driven modelling of network-wide extension of the Tree of REactionary delays in ECAC area (TREE)
SESAR Joint Undertaking Work Package E project
 - ✦ Passenger-centric Big Data Sources for Socio-economic and Behavioural Research in ATM (*BigData4ATM*^o)
SESAR2020 Work Package E project
 - ✦ Piattaforme Digitali per la Sostenibilità (Digital platforms for Sustainability). Sapienza University of Rome. In collaboration with Sony Computer Science Laboratories Rome. 2018 – ongoing.
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PEER-REVIEWED PUBLICATIONS

- ◆ B. Campanelli, P. Fleurquin, V. M. Eguíluz, J. J. Ramasco, A. Arranz, I. Extebarria, D. Schaefer (Editor). *Modeling Reactionary Delays in the European Air Transport Network*, Proceedings of the SESAR Innovation days (2014) EUROCONTROL. ISBN 978-2-87497-077-1
- ◆ P. Fleurquin, B. Campanelli, V. M. Eguíluz, J. J. Ramasco, D. Schaefer (Editor). *Trees of Reactionary Delay: Addressing the Dynamical Robustness of the US Air Transportation Network*. Proceedings of the SESAR Innovation days (2014) EUROCONTROL. ISBN 978-2-87497-077-1
- ◆ B. Campanelli, J. J. Ramasco, P. Fleurquin, V. M. Eguíluz, I. Extebarria, A. Arranz. *Data-driven modelling of the Tree of Reactionary Delays*, Proceedings of the 6th International Conference on Research in Air Transportation
- ◆ C. Ciruelos, B. Campanelli, I. Extebarria, V. M. Eguíluz, S. Peces, J. J. Ramasco. *Modelling Delay Propagation Trees for Scheduled Flights*. Proceedings of the Eleventh USA/Europe Air Traffic Management Research and Development Seminar
- ◆ B. Campanelli, P. Fleurquin, V. M. Eguíluz, J. J. Ramasco, C. Ciruelos, A. Arranz, D. Schaefer (Editor). *TREE Model: a Tool to Explore Delay Reduction Scenarios in the ECAC Area*. Proceedings of the SESAR Innovation Days (2015) EUROCONTROL. ISSN 0770-1268
- ◆ B. Campanelli, P. Fleurquin, A. Arranz, I. Extebarria, C. Ciruelos, V. M. Eguíluz, J. J. Ramasco. *Comparing the Modeling of Delay Propagation in the US and European Air Traffic Networks*. *Journal of Air Transport Management* **56**, 12-18 (2016)

OTHER ACTIVITIES

- ◆ B. Campanelli, M. Lenormand, P. Fleurquin, J. J. Ramasco, V. M. Eguíluz. *Movilidad y Transporte: un Viaje a Través del Espacio, de la Ciudad al Mundo*. *Revista Española de Física*, 28(3), 37-41
- ◆ First Mediterranean School of Complex Systems (attendance), Salina (Italy), 9-13 June 2014
- ◆ Fourth Summer School on Statistical Physics of Complex and Small Systems (attendance), Palma de Mallorca (Spain), 8-19 September 2014
- ◆ B. Campanelli, J. J. Ramasco. *Backward Exploration of Delay Propagation in Air Transportation Networks*. Accepted talk at the 2016 Conference on Complex Systems, Amsterdam (Netherlands), 19-22 September 2016
- ◆ Third School on Complex Systems (attendance), Amsterdam (Netherlands) 16-18 September 2016
- ◆ B. Campanelli, J. J. Ramasco. *A Simulation-Based Characterization of the Impact of Delayed Intercontinental Flights*. Poster presented at the SESAR Innovation Days 2016, TU Delft (Netherlands), 8-10 November 2016
- ◆ Summer School on Complex Socio-Technical Systems (attendance), IFISC, Palma de Mallorca (Spain), 4-8 September 2017
- ◆ Acted as reviewer for **Journal of Air Transport Management**
- ◆ Acted as reviewer for **Transportation Research Part C: Emerging Technologies**

RESEARCH INTERESTS

Transportation Systems, Human Mobility, Data Science, Opinion and Social Dynamics