

Biographical Sketch
Bruno Gonçalves

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1. PROFESSIONAL PREPARATION

- Ph.D. in Physics, M.Sc. C.S., Emory University, 2008
- M.Sc. in Physics, Universidade de Aveiro, Portugal, 2004
- Licenciatura in Physics, Universidade do Porto, Portugal, 2001

2. APPOINTMENTS

- Research Associate, School of Informatics and Computing, Indiana University, 2008-Present
- Doctoral Fellow, Department of Physics, Emory University, 2002-2008

Fellowships & Honors

- Visiting Scientist, Fondazione ISI, Torino, Italy, Jul 7 – Jul 31, 2010
- Visiting Scientist, Fondazione ISI, Torino, Italy, Jun 20 – Jul 31, 2009
- Visiting Scientist, Los Alamos National Laboratory, Jun 19 – Aug 18, 2006
- Visiting Scientist, Los Alamos National Laboratory, Jun 6 – Sep 4, 2005

3.(a) FIVE PUBLICATIONS RELATED TO PROPOSED PROJECT

- J. Ratkiewicz, M. Conover, M. Meiss, B. Gonçalves, S. Patil, A. Flammini, F. Menczer, “Truthy: Mapping the Spread of Astroturf in Microblog Streams”, To Appear *WWW 2011* (2011)
- M. Meiss, B. Gonçalves, J. J. Ramasco, A. Flammini, F. Menczer, “Modelling Traffic on the Web Graph”, *7th Workshop on Algorithms and Models for the Web Graph, LNCS 6516*, 50 (2010)
- M. Meiss, J. Duncan, B. Gonçalves, J. J. Ramasco, F. Menczer, “What’s in a Session: Tracking Individual Behavior on the Web”, *Proceedings of the 20th ACM conference on Hypertext and hypermedia* 173 (2009)
- B. Gonçalves, J. J. Ramasco “Human Dynamics Revealed Through Web Analytics”, *Phys. Rev. E* 78 026123 (2008).
- J. J. Ramasco, B. Gonçalves, “Transport on Weighted Networks: When Correlations are Independent of Degree”, *Phys. Rev E* 76, 066106 (2007)

3.(b) FIVE ADDITIONAL PUBLICATIONS

- W. Van den Broeck, C. Gioannini, B. Gonçalves, M. Quaggiotto, V. Colizza, A. Vespignani, “The GLEaMviz computational tool, a publicly available software to explore realistic epidemic spreading scenarios at the global scale” *BMC Infectious Diseases* 11, 37 (2011).
- M. Ajelli, B. Gonçalves, D. Balcan, V. Colizza, H. Hu, J. J. Ramasco, S. Merler, A. Vespignani, “Comparing large-scale computational approaches to epidemic modeling: Agent based versus structured metapopulation models”, *BMC Infectious Diseases* 10, 190 (2010)
- D. Balcan, H. Hu, B. Gonçalves, P. Bajardi, C. Poletto, J. J. Ramasco, D. Paolotti, N. Perra, M. Tizzoni, W. Van der Broeck, V. Colizza, A. Vespignani, “Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility”, *BMC Medicine* 7, 45 (2009)

- D. Balcan, V. Colizza, B. Gonçalves, H. Hu, J. J. Ramasco, A. Vespignani, “Multiscale mobility networks and the spatial spreading of infectious diseases” *Proceedings of the National Academy of Sciences* 106, 21484 (2009).
- S. Boettcher, B. Gonçalves, “Anomalous Diffusion on the Hanoi Networks” *Euro Physics Letters* 84, 30002 (2008)

4. SYNERGISTIC ACTIVITIES

5.(a) COLLABORATORS (past 48 months)

A. Vespignani, Indiana University, USA; A. Flammini, Indiana University, USA; F. Menczer, Indiana University, USA; D. Balcan, Indiana University, USA; N. Perra, Indiana University, USA; J. Bollen, Indiana University, USA; J. J. Ramasco, Univ. Illes Balears, Spain; S. Merler, Fondazione Bruno Kessler, Italy; V. Colizza, Inserm, France; M. Ajelli, Fondazione Bruno Kessler, Italy; S. Boettcher, Emory University, USA; H. Hu, Indiana University, USA; M. Tizzoni, Fondazione ISI, Italy; P. Bajardi, Fondazione ISI, Italy; C. Poletto, Fondazione ISI, Italy; W. Van den Broeck, Fondazione ISI, Italy; C. Gioannini, Fondazione ISI, Italy; M. Quaggiotto, Fondazione ISI, Italy; G. L. Celardo, Universita Cattolica, Italy; F. Borgonovi, Universita Cattolica, Italy; L. Spadafora, Universita Cattolica, Italy;

5.(b) GRADUATE AND POSTDOCTORAL ADVISORS

- 1) A. Vespignani, Indiana University, Blomington, IN
- 2) S. Boettcher, Emory University, Atlanta, GA
- 3) J. F. F. Mendes, Universidade de Aveiro, Aveiro, Portugal

Thesis Advisor and Postgraduate-Scholar Sponsor (last 5 years):