

Bruno Gonçalves

Center for Data Science – New York University
60 5th Avenue, Suite 605, New York, NY 10011

+1 646-407-6660 • bgoncalves@gmail.com • www.bgoncalves.com
bmtgoncalves • bgoncalves • bmtgoncalves

Professional Experience

New York University <i>Moore-Sloan Data Science Fellow</i>	New York, NY 10/2015 – Present
Aix-Marseille Université <i>Maître de Conférences</i>	Marseille, France 09/2012 – Present
Northeastern University <i>Associate Research Scientist</i>	Boston, MA 09/2011 – 08/2012
Indiana University <i>Research Associate</i>	Bloomington, IN 09/2008 – 08/2011

Honors and Awards

Awards	
Junior Scientific Award, Complex System Society: "for outstanding contributions in Complex Systems Science"	<i>Sept. 29, 2015</i>
Visiting Professor	
Universitat de les Illes Balears, Palma, Spain:	<i>Sept. 04 – Oct. 03, 2016</i>
Centre de Recerca Matemàtica, Barcelona, Spain:	<i>Sept. 13 – 19, 2015</i>
Universitat de les Illes Balears, Palma, Spain:	<i>Sept. 08 – Oct. 10, 2014</i>
A*Star Institute of High Perf. Comp., Singapore:	<i>Jun. 30 – Jul. 25, 2014</i>
University of Namur, Namur, Belgium:	<i>Feb 24 – 28, 2014</i>
Universitat de les Illes Balears, Palma, Spain:	<i>Sept. 1 – Oct 1, 2013</i>
Northeastern University, Boston, MA:	<i>Oct. 1 – Oct 29, 2012</i>
Visiting Researcher	
Fondazione ISI, Torino, Italy:	<i>Jul. 1 – Jul. 28, 2012</i>
University of Warwick, Warwick, England:	<i>May 13 – May 26, 2012</i>
Universitat de les Illes Balears, Palma, Spain:	<i>Oct. 31 – Nov. 26, 2011</i>
Fondazione ISI, Torino, Italy:	<i>Jul. 9 – Jul. 31, 2011</i>
Fondazione ISI, Torino, Italy:	<i>Jul. 7 – Jul. 31, 2010</i>
Fondazione ISI, Torino, Italy:	<i>Jun. 20 – Jul. 31, 2009</i>
Los Alamos National Lab, Los Alamos, NM:	<i>Jun. 19 – Aug. 18, 2006</i>
Los Alamos National Lab, Los Alamos, NM:	<i>Jun. 6 – Sept. 4, 2005</i>
Advisory Boards	
Latin American Network Science Society (LANet) Council:	<i>Oct. 2016 – Present</i>

Network Science Society (NetSci) Council:
Complex Systems Society (CSS) Council:

May. 2015 – Present
Sept. 2012 – Present

Grants

1. **Computational Approaches to the Modeling of Infectious Disease Transmission Between and Within Animal and Human Populations**
A. Vespignani, **B. Gonçalves**, C. Scoglio
National Agricultural Biosecurity Center – 2011 – \$100,000
2. **Designing an Effective HIV Prevention Plan for Botswana by Coupling an Information Network Model with a Meta-population Transmission Model**
S. Blower, B. Wagner, J. Okano, A. Vespignani, **B. Gonçalves**, R. Vardavas
National Academies Keck Futures – 2008 Futures Grant on Complex Systems – \$75,000

Education

Emory University <i>PhD Physics/M.S. Computer Science</i>	Atlanta, GA <i>2008</i>
Universidade de Aveiro <i>M.S. Physics</i>	Aveiro, Portugal <i>2004</i>
Universidade do Porto <i>B.S. Physics</i>	Porto, Portugal <i>2001</i>

Service

Organization.....

1. CompleNet 2017: 8th Workshop on Complex Networks
Dubrovnik, Croatia
http://complenet.org/CompleNet_2017/Home.html
2. ChASM 2016: Computational Approaches to Social Modeling
Workshop parallel to SocInfo 2016, Bellevue, WA
<http://chasm.weebly.com>
3. “5th International Workshop on Complex Networks and their Applications”
Milan, Italy
<http://complexnetworks.org/>
4. “8th International Conference on Discrete Models of Complex Systems”
Aveiro, Portugal
<https://www.ezconferences.com/c/summersolstice2016>
5. “Complex Networks: from theory to interdisciplinary applications”
Satellite meeting to Statphys26, Marseille, France
<http://complexnets2016.org/>
6. CompleNet 2016: 7th Workshop on Complex Networks
Dijon, France
http://complenet.org/CompleNet_2016/Home.html
7. Modeling and Mining Temporal Interactions (M2TI)
Workshop of the 9th International Conference on the Web and Social Media, Oxford, UK
<http://m2ti.weebly.com/>
8. ChASM 2014: Computational Approaches to Social Modeling
Workshop parallel to WebSci 2014, Bloomington, IN
<http://chasm.weebly.com>

9. Structure and Dynamics of Complex Networks
Les Houches Thematic School 2014, Les Houches, France
<http://leshouches2014.weebly.com>
10. NetSci 2014: International Workshop and Conference on Network Science
Bekeley, CA
11. TDN 2013: Temporal and Dynamic Networks: From Data to Models
Workshop parallel to NetSci 2013, Copenhagen, Denmark
<http://tdn2013.wix.com/tdn2013>
12. NetSci 2013: International Workshop and Conference on Network Science
Copenhagen, Denmark
<http://www.netsci2013.net>
13. ChASM 2013: Computational Approaches to Social Modeling
Workshop parallel to ICCS 2013, Barcelona, Spain
<http://chasm.weebly.com>
14. Focus Session: Physical Approaches to Social Modeling
APS March Meeting 2013, Baltimore, MD
15. ChASM 2012: Computational Approaches to Social Modeling
Workshop parallel to ICCS 2012, Omaha, NE
<http://chasm.weebly.com>
16. Focus Session: Complex and Co-evolving Networks
APS March Meeting 2012, Boston, MA

Program Committees

- ICWSM 2017
- WWW 2017
- SocInfo 2016
- WWW 2016
- ICCS 2016
- ICWSM 2016
- IEEE Big Data Service 2016
- WebSci 2015
- SocInfo 2015
- SITIS 2015
- NetMob 2015
- IEEE Big Data Service 2015
- ICCS 2015
- DH 2015
- WWW 2015
- ICWSM 2014
- Hypertext 2014
- WebSci 2014
- NetSci 2014
- ICCS 2014
- WWW 2014 Workshop - Connecting Online & Offline Life
- ICCS 2013

- ECCS'13
- ECCS'13 Satellite Meeting - Collective Behaviors and Networks
- Hypertext 2013
- ECCS'12 Satellite Meeting - Data Driven Modeling of Contagion Processes
- Hypertext 2012
- World Wide Web 2012
- Social Network Systems 2010
- Web Search and Data Mining – Late Breaking Results 2008

Refereeing.....

- Science
- Science Advances
- Applied Network Science
- Nature Scientific Reports
- Chaos Solitons and Fractals
- IEEE Transactions on Multimedia
- IEEE JSAC on Network Science
- Complex Adaptive Systems Modeling
- Networks and Spatial Economics
- EPJ Data Science
- PLoS One
- Math. Biosciences
- Euro. Phys. J. B.
- Phys. Rev. E
- Physica A
- J. Stat.

Software Projects

Truthy @ Indiana

Automated system to detect “organic” and “artificial” memes in micro blogging platforms.

<http://truthy.indiana.edu>

GLEaMViz simulator

Software system for the simulation of infectious diseases on a global scale.

<http://www.gleamviz.org/simulator/>

EPIdeMIC Cyberinfrastructure (EpiC)

Computational infrastructure for epidemics research and education.

<http://epic.slis.indiana.edu/>

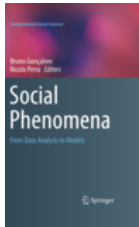
Publications

Books.....

1. **Twitterology**

B. Gonçalves, N. Perra

Springer (2018) Forthcoming



2. **Complex Networks VIII - Proceedings of the 8th Workshop on Complex Networks CompleNet 2017**
B. Gonçalves, R. Menezes, R. Sinatra, V. Zlatić (Editors)
Springer (2017) Forthcoming
3. **Complex Networks VII - Proceedings of the 7th Workshop on Complex Networks CompleNet 2016**
H. Cherifi, **B. Gonçalves**, R. Menezes, R. Sinatra (Editors)
Springer (2016) ISBN: 9783319305684
4. **Social Phenomena: From Data Analysis to Models**
B. Gonçalves, N. Perra (Editors)
Springer (2015) ISBN: 9783319140100

Book Chapters.....

1. **Modeling and Predicting Human Infectious Diseases**
N. Perra, **B. Gonçalves**, A. Vespignani
In "Social Phenomena: From Data Analysis to Models"
B. Gonçalves, N. Perra (Editors)
Springer (2015) ISBN: 97833191401008
2. **Social networks, contagion processes and the spreading of infectious diseases**
B. Gonçalves, N. Perra, A. Vespignani
In "Handbook of Systems Biology: Concepts and Insights"
Job Dekker, Marc Vidal and A.J. Marian Walhout (Editors)
Academic Press (2012) ISBN: 9780123859440
3. **Abuse of social media and political manipulation**
B. Gonçalves, M. Conover, F. Menczer
In "The Death of The Internet"
Marcus Jakobsson (Editor)
Wiley (2012) ISBN: 978111806241

Preprints.....

1. **Immigrant community integration in world cities**
F. Lamanna, M. Lenormand, M. Henar Salas-Olmedo, G. Romanillos, **B. Gonçalves**, J. J. Ramasco
Under Review arXiv: **1611.01056**
2. **Interplay of homophily and communication in online social networks: Wikipedia-based semantic metric application on Twitter**
S. Šćepanović, I. Mishkovski, **B. Gonçalves**, N. Trung Hieu, P. Hui
Under Review arXiv: **1606.08207**
3. **The happiness paradox: your friends are happier than you**
J. Bollen, **B. Gonçalves**, I. van de Leemput, G. Ruan
Under Review arXiv: **1602.02665**
4. **Everyday the Same Picture: Popularity and Content Diversity**
A. Bessi, F. Zollo, M. Del Vicario, A. Scala, F. Petroni, **B. Gonçalves**, W. Quattrociocchi
arXiv: **1501.07201**

Journal Articles.....

PDF files and an up-to-date publication list: <http://www.bgoncalves.com/research.html>

Citation data: <http://bit.ly/GoogleScholar>

- 1. Learning Spanish Dialects Through Twitter**
B. Gonçalves, D. Sánchez
To Appear *RILI* arXiv: **1511.04970**
- 2. Urban Pulse: Capturing the Rhythm of Cities**
F. Miranda, H. Doraiswamy, M. Lage, K. Zhao, B. Gonçalves, L. Wilson, M. Hsieh, and C. T. Silva
IEEE Trans on Vis. and Comp. Graphics, **23**, 791 (2017) arXiv: **1512.07281**
- 3. OSoMe: The IUNI Observatory on Social Media**
C. A. Davis, G. L. Ciampaglia, L. M. Aiello, K. Chung, M. Conover, E. Ferrara, A. Flammini, G. Fox, X. Gao, B. Gonçalves, P. Grabowicz, A. Hong, P.-M. Hui, S. McCaulay, K. McKelvey, M. Meiss, S. Patil, C. P. Kankanamalage, V. Pentchev, J. Qiu, J. Ratkiewicz, A. Rudnick, B. Serrette, P. Shiralkar, O. Varol, L. Weng, T.-L. Wu, A. Younge, and F. Menczer
PeerJ Computer Science **2**, e87 (2016)
- 4. The dynamic of information-driven coordination phenomena: a transfer entropy analysis**
J. Borge-Holthoefer, N. Perra, B. Gonçalves, S. González-Bailón, A. Arenas, Y. Moreno, A. Vespignani
Science Advances **2**, E1501158 (2016) arXiv: **1507.06106**
- 5. Touristic site attractiveness seen through Twitter**
A. Bassolas, M. Lenormand, A. Tugores, B. Gonçalves, J. Ramasco
EPJ Data Science **5**, 12 (2016) arXiv: **1601.07741**
- 6. Human Diffusion and City Influence**
M. Lenormand, B. Gonçalves, A. Tugores, J. Ramasco
J. R. Soc. Interface **12**, 20150473 (2015) arXiv: **1501.07788**
- 7. Reply to Biersteker: When methods matter**
S. Ronen, B. Gonçalves, K. Z. Hu, A. Vespignani, S. A. Pinker, C. A. Hidalgo
Proc. Natl. Acad. Sci **112**, E1815 (2015)
- 8. Links That Speak: The structure and implications of the global language network**
S. Ronen, B. Gonçalves, K. Z. Hu, A. Vespignani, S. A. Pinker, C. A. Hidalgo
Proc. Natl. Acad. Sci **111**, E5616 (2014)
- 9. Crowdsourcing Dialect Characterization with Twitter**
B. Gonçalves, D. Sánchez
PLoS One **9**, E112074 (2014) arXiv: **1407.7094**
- 10. Entangling mobility and interactions in social media**
P. A. Grabowicz, J. J. Ramasco, B. Gonçalves, V. M. Eguiluz
PLoS One **9**, E92196 (2014) arXiv: **1307.5304**

11. **Human mobility and the worldwide impact of localized Smallpox release**
B. Gonçalves, D. Balcan, A. Vespignani
Nature Scientific Reports **3**, 810 (2013)
12. **Characterizing scientific production and consumption in Physics**
Q. Zhang, N. Perra, B. Gonçalves, F. Ciulla, A. Vespignani
Nature Scientific Reports **3**, 1640 (2013)
13. **The Twitter of Babel: Mapping World Languages through Microblogging Platforms**
D. Mocanu, A. Baronchelli, N. Perra, B. Gonçalves, A. Vespignani
PLoS One **8**, E61981 (2013) arXiv: **1212.5238**
14. **Emergence of influential spreaders in modified rumor models**
J. Borge-Holthoefer, S. Meloni, B. Gonçalves, Y. Moreno
J. Stat. Phys. **151**, 383 (2013) arXiv: **1209.1351**
15. **Walking and searching in time-varying networks**
N. Perra, A. Baronchelli, D. Mocanu, B. Gonçalves, R. Pastor-Satorras, A. Vespignani
Phys. Rev. Lett. **109**, 238701 (2012) arXiv: **1206.2858**
16. **Real time numerical forecast of global epidemic spreading: case study of 2009 A/H1N1pdm**
M. Tizzoni, P. Bajardi, C. Poletto, J. J. Ramasco, D. Balcan, B. Gonçalves, N. Perra, V. Colizza, A. Vespignani
BMC Medicine **10**, 165 (2012) arXiv: **1209.1351**
17. **Beating the news using Social Media: the case study of American Idol**
F. Ciulla, D. Mocanu, A. Baronchelli, B. Gonçalves, N. Perra, A. Vespignani
EPJ Data Science **1**, 8 (2012) arXiv: **1205.4467**
18. **Activity driven modeling of dynamic networks**
N. Perra, B. Gonçalves, R. Pastor-Satorras, A. Vespignani
Nature Scientific Reports **2**, 469 (2012) arXiv: **1203.5351**
19. **Partisan Asymmetries in Online Political Activity**
M. Conover, B. Gonçalves, A. Flammini, F. Menczer
EPJ Data Science **1**, 6 (2012) arXiv: **1205.1010**
20. **Towards a characterization of behavior-disease models**
N. Perra, D. Balcan, B. Gonçalves, A. Vespignani
PLoS One **6**, e23084 (2011) arXiv: **1107.0997**
21. **Modeling Users: Activity on Twitter Networks: Validation of Dunbar's Number**
B. Gonçalves, N. Perra, A. Vespignani
PLoS One **6**, e22656 (2011) arXiv: **1105.5170**
22. **Mood Assortativity in Online Social Networking**
J. Bollen, B. Gonçalves, G. Ruan, H. Mao
ALIFE **17**, 237 (2011) arXiv: **1103.0784**

23. **The GLEaMviz computational tool, a publicly available software to explore realistic epidemic spreading scenarios at the global scale**
W. Van Der Broeck, C. Gioannini, **B. Gonçalves**, M. Quaggiotto, V. Colizza, A. Vespignani
BMC Infectious Diseases **11**, 37 (2011)
24. **Modeling the spatial spread of infectious diseases: the GLObal Epidemic and Mobility computational model**
D. Balcan, **B. Gonçalves**, H. Hu, V. Colizza, J. J. Ramasco, A. Vespignani
J. of Computational Science **1**, 132 (2010)
25. **Comparing large-scale computational approaches to epidemic modeling: Agent based versus structured metapopulation models**
M. Ajelli, **B. Gonçalves** †, D. Balcan, V. Colizza, H. Hu, J. J. Ramasco, S. Merler, A. Vespignani
BMC Infectious Diseases **10**, 190 (2010)
26. **Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A(H1N1) influenza in the Northern Hemisphere**
D. Balcan, V. Colizza, A. C. Singer, C. Chouaid, H. Hu, **B. Gonçalves**, P. Bajardi, C. Poletto, J. J. Ramasco, N. Perra, M. Tizzoni, D. Paolotti, W. Van den Broeck, A. J. Valleron, A. Vespignani.
PLoS Currents: Influenza **Dec 4**, RRN1133 (2009)
27. **Multiscale mobility networks and the spatial spreading of infectious diseases.**
D. Balcan, V. Colizza, **B. Gonçalves**, H. Hu, J. J. Ramasco, A. Vespignani
Proc. Natl. Acad. Sci. **106**, 21484-21489 (2009), arXiv: **0907.3304**
28. **Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model**
V. Colizza, A. Vespignani, N. Perra, C. Poletto, **B. Gonçalves**, H. Hu, D. Balcan, D. Paolotti, W. Van den Broeck, M. Tizzoni, P. Bajardi, J.J. Ramasco
PLoS Currents: Influenza **Nov 11**, RRN1129 (2009)
29. **Seasonal transmission potential and activity peaks of the new influenza A(H1N1): a Monte Carlo likelihood analysis based on human mobility**
D. Balcan, H. Hu, **B. Gonçalves** †, P. Bajardi, C. Poletto, J. J. Ramasco, D. Paolotti, N. Perra, M. Tizzoni, W. Van den Broeck, V. Colizza, A. Vespignani
BMC Medicine **7**, 45 (2009), arXiv: **0909.2417**
30. **Modeling the critical care demand and antibiotics resources needed during the Fall 2009 wave of influenza A(H1N1) pandemic.**
P. Bajardi, C. Poletto, D. Balcan, H. Hu, **B. Gonçalves**, J. J. Ramasco, D. Paolotti, N. Perra, M. Tizzoni, W. Van den Broeck, V. Colizza, A. Vespignani
Emerging Health Threats Journal **2** e11 (2009)
31. **The Peculiar Phase Structure of Random Graph Bisection**
A. G. Percus, G. Istrate, **B. Gonçalves**, R. Z. Sumi, S. Boettcher
J. Math. Phys. **49**, 125219 (2008), arXiv:**0808.1549**
32. **Anomalous Diffusion on the Hanoi Networks**
S. Boettcher, **B. Gonçalves**
Euro Phys. Lett. **84**, 30002 (2008), arXiv:cond-mat/**0802.2757**





33. **Geometry and Dynamics for Hierarchical Regular Networks**
S. Boettcher, **B. Gonçalves**, J. Azaret
J. Phys. A: Math. Theor. **41**, 335003 (2008), arXiv: **0805.3013**
34. **Hierarchical, Regular Small-World Networks**
S. Boettcher, **B. Gonçalves**, H. Guclu
J. Phys. A: Math. Theor. **41**, 252001 (2008), arXiv:cond-mat/**0712.1259**
35. **Human Dynamics Revealed Through Web Analytics**
B. Gonçalves, J. J. Ramasco
Phys. Rev. E **78**, 026123 (2008), arXiv:cs.HC/**0803.4108**
36. **Hysteretical Optimization In Spin Glasses**
B. Gonçalves, S. Boettcher
J. Stat. Mech. P01003 (2008), arXiv:cond-mat/**0710.2138**
37. **Magnetic Reversal Time in Open Long Range Systems**
F. Borgonovi, G. L. Celardo, **B. Gonçalves**, L. Spadafora
Phys. Rev. E **77**, 061119 (2008), arXiv:cond-mat/**0710.3935**
38. **Transport on Weighted Networks: When Correlations are Independent of Degree**
J. Ramasco, **B. Gonçalves**
Phys. Rev. E **76**, 066106 (2007), arXiv:cond-mat/**0609776**
39. **Ensemble Inequivalence in Random Graphs**
J. Barré, **B. Gonçalves**
Physica A **386**, 212 (2007), arXiv:cond-mat/**0705.2385**
40. **Monte Carlo Study of the Elastic Interaction in Heteroepitaxial Growth**
B. Gonçalves, J.F.F. Mendes
Phys. Rev. E **65**, 061602 (2002), arXiv:cond-mat/**0204253**

Conference Proceedings.....

1. **Topical differences between Chinese language Twitter and Sina Weibo**
Q. Zhang, **B. Gonçalves**,
NLPIT'16, 625 (2016) arXiv: **1512.07281**
2. **The Role of Information Diffusion in the Evolution of Social Networks**
L. Weng, J. Ratkiewicz, N. Perra, **B. Gonçalves**, C. Castillo, F. Bonchi, R. Schifanella, F. Menczer, A. Flammini
KDD, 356 (2013) arXiv: **1302.6276**
3. **Dynamical Classes of Collective Attention in Twitter**
J. Lehmann, **B. Gonçalves**, J. J. Ramasco, C. Cattuto
WWW, 251 (2012) arXiv: **1111.1896**

4. **Predicting the Political Alignment of Twitter Users**
M. Conover, **B. Gonçalves**, J. Ratkiewicz, A. Flammini, F. Menczer
Third IEEE International Conference on Social Computing, 192 (2011)
5. **Detecting and Tracking Political Abuse in Social Media**
J. Ratkiewicz, M. Conover, M. Meiss, **B. Gonçalves**, A. Flammini, F. Menczer
Fifth International AAI Conference on Weblogs and Social Media, 297 (2011)
6. **Political Polarization on Twitter**
M. Conover, J. Ratkiewicz, J. M. Francisco, **B. Gonçalves**, A. Flammini, F. Menczer
Fifth International AAI Conference on Weblogs and Social Media, 89 (2011)
7. **Truthy: Mapping the Spread of Astroturf in Microblog Streams**
J. Ratkiewicz, M. Conover, M. Meiss, **B. Gonçalves**, S. Patil, A. Flammini, F. Menczer
WWW, 249 (2011), arXiv:**1011.3768**
8. **Modeling Traffic on the Web Graph**
M. Meiss, **B. Gonçalves**, J. J. Ramasco, A. Flammini, F. Menczer
7th Workshop on Algorithms and Models for the Web Graph, LNCS 6516, 50 (2010)
9. **Agents, Bookmarks and Clicks: A topical model of Web traffic**
M. Meiss, **B. Gonçalves**, J. J. Ramasco, A. Flammini, F. Menczer
Proceedings of the 21th ACM conference on Hypertext and hypermedia, 229 (2010), arXiv:**1003.5327**
10. **What's in a Session: Tracking Individual Behavior on the Web**
M. Meiss, J. Duncan, **B. Gonçalves**, J. J. Ramasco, F. Menczer
Proceedings of the 20th ACM conference on Hypertext and hypermedia 173 (2009), arXiv:**1003.5325**
11. **Remembering what we like: Toward an agent-based model of Web traffic**
B. Gonçalves, M. R. Meiss, J. J. Ramasco, A. Flammini, F. Menczer
WSDM 2009 Late Breaking Results (2009), arXiv:**0901.3839**
12. **Towards the characterization of individual users through Web analytics**
B. Gonçalves, J. Ramasco
Complex Sciences 2247 (2009), arXiv:cond-mat/**0901.0498**

Select Media Coverage

Full list: <http://www.bgoncalves.com/press.html>

1. **Listen to the music of the traffic in the city**
Economist – Oct 22, 2016
<http://www.economist.com/news/science-and-technology/21709002-places-people-have-pulses-if-only-you-know-how-measure-them-listen>
2. **Book Excerpt: Generation Z: Online and at Risk?**
Scientific American Mind – Aug 11, 2016
<http://www.nature.com/scientificamericanmind/journal/v27/n5/full/scientificamericanmind0916-64.html>

3. **Visualizing the Global Network of Languages**
Scientific American – Jul 14, 2016
<http://blogs.scientificamerican.com/sa-visual/visualizing-the-global-network-of-languages/>
4. **I tuoi amici sono più contenti di te? E' il paradosso della felicità**
Repubblica.it – Apr 17, 2016
http://www.repubblica.it/scienze/2016/04/17/news/paradosso_felicita_amici-135463725/?ref=HRLV-18
5. **New research tracks Twitter social media data to predict large social events**
Psy Post – Apr 7, 2016
<http://www.psypost.org/2016/04/new-research-tracks-twitter-social-media-data-spot-pre%C2%ADcur%C2%ADsors-large-social-events-42166>
6. **Signature shift in social media dynamics before major events**
Nature Asia – Apr 6, 2016
<http://www.natureasia.com/en/nmiddleeast/article/10.1038/nmiddleeast.2016.41>
7. **When Social Movements Reach Their Tipping Point, and Why Scientific Collaboration is Important**
UPenn – Apr 5, 2016
<https://www.asc.upenn.edu/news-events/news/when-social-movements-reach-their-tipping-point-and-why-scientific-collaboration>
8. **"Ecco come ti controllo le masse". Il super potere dell'algoritmo**
Repubblica.it – Apr 1, 2016
http://www.repubblica.it/tecnologia/sicurezza/2016/03/31/news/_ecco_come_controllo_le_masse_il_super_potere_dell_algoritmo-136630321/
9. **Comprovado: nossos amigos são mais felizes do que nós no Twitter**
Zero Hora – Feb 28, 2016
<http://zh.clicrbs.com.br/rs/vida-e-estilo/noticia/2016/02/comprovado-nossos-amigos-sao-mais-felizes-do-que-nos-no-twitter-4985321.html>
10. **This Theory Proves Social Media Really Is Bad For Your Mental Health**
Elite Daily – Feb 23, 2016
<http://elitedaily.com/envision/happiness-paradox-proves-friends-are-happier/1396266/>
11. **Vos amis sont plus heureux et plus populaires que vous**
Motherboard – Feb 22, 2016
<http://motherboard.vice.com/fr/read/vos-amis-sont-plus-heureux-et-plus-populaires-que-vous>
12. **The Friendship Paradox vs. the Happiness Paradox**
Evolution Literacy – Feb 22, 2016
<https://evolutionliteracy.com/2016/02/22/the-friendship-paradox-vs-the-happiness-paradox/>
13. **Sim, seus amigos são mais felizes que você - segundo a ciência**
Galileu – Feb 22, 2016
<http://revistagalileu.globo.com/Ciencia/noticia/2016/02/sim-seus-amigos-sao-mais-felizes-que-voce-segundo-ciencia.html>
14. **There is now statistical proof that your friends are happier than you**
Wired.uk – Feb 22, 2016
<http://www.wired.co.uk/news/archive/2016-02/22/your-friends-are-happier-than-you>
15. **La infelicidad se contagia más rápido en Twitter que la alegría**
Prensa Educativa – Feb 22, 2016
<http://www.sutesuaem.org/news/educa/archivos/97909>

16. **First Evidence for the Happiness Paradox—That Your Friends Are Happier than You Are**
MIT Technology Review – Feb 19, 2016
<https://www.technologyreview.com/s/600853/first-evidence-for-the-happiness-paradox-that-your-friends-are-happier-than-you-are/>
17. **Neural Limitations of Social Relationships**
Graphite Publications – Feb 11, 2016
<http://graphitepublications.com/neural-limitations/>
18. **Which are the world's most influential languages?**
World Economic Forum – Jan 13, 2016
<http://www.weforum.org/agenda/2016/01/which-are-the-world-s-most-influential-languages>
19. **The future of language**
Washington Post – Sept 24, 2015
<https://www.washingtonpost.com/news/worldviews/wp/2015/09/24/the-future-of-language/>
20. **Le Français le plus connu au monde est...**
Rue89 – May 3, 2015
<http://rue89.nouvelobs.com/2015/05/03/francais-plus-connu-monde-est-258971>
21. **Facebook situazionista. Lo strano caso di Toto Cutugno**
Artribune – Mar 30, 2015
<http://www.artribune.com/2015/03/facebook-situazionista-lo-strano-caso-di-toto-cutugno/>
22. **Strange Facebook Page Post Same Picture Of Toto Cutugno Every Day, Leads To Academic Social Media Study**
Social News Daily – Feb 22, 2015
<http://socialnewsdaily.com/48610/strange-facebook-page-post-same-picture-of-toto-cutugno-every-day-leads-to-academic-social-media-study/>
23. **Toto Cutugno, l'idole du Web**
Le Temps – Feb 12, 2015
http://www.letemps.ch/Page/Uuid/890aa8a8-b20a-11e4-b561-84ba1d1afc1c/Toto_Cutugno_lidole_du_Web
24. **Le chanteur Toto Cutugno vole au secours de la science**
La Liberation – Feb 9, 2015
http://ecrans.liberation.fr/ecrans/2015/02/09/le-chanteur-toto-cutugno-vole-au-secours-de-la-science_1198961
25. **El extraño caso de Toto Cutugno**
El Comercio – Feb 9, 2015
<http://elcomercio.pe/redes-sociales/facebook/facebook-subemisma-foto-diariamente-y-tiene-45-mil-fans-noticia-1790019>
26. **Cette curieuse page Facebook qui poste chaque jour la même photo**
Rue 89 – Feb 9, 2015
<http://rue89.nouvelobs.com/2015/02/09/curieux-cas-cette-page-facebook-poste-chaque-jour-meme-chose-257587>
27. **Toto Cutugno, una pagina Facebook pubblica sempre la stessa foto ogni giorno. Se ne accorge il Washington Post**
Huffington Post.it – Feb 7, 2015
http://www.huffingtonpost.it/2015/02/07/cutugno-facebook-stessa-foto_n_6635990.html
28. **Toto Cutugno ha mandato in tilt Facebook**
La Stampa – Feb 6, 2015
<http://www.lastampa.it/2015/02/06/tecnologia/toto-cutugno-ha-mandato-in-tilt-facebook-zS8GBMHpWfaobuyZj2Wbw0/pagina.html>

29. **The curious case of the Facebook page that posts the same thing every day**
Washington Post – Feb 6, 2015
<http://www.washingtonpost.com/news/the-intersect/wp/2015/02/06/the-curious-case-of-the-facebook-page-that-posts-the-same-thing-every-day/>
30. **The Facebook Page That Posts the Same Picture Every Day**
Der Standard – Feb 5, 2015
<http://derstandard.at/2000011318848/Facebook-Seite-teilt-taeglich-selbes-Bild-von-Italo-Popstar>
31. **The Facebook Page That Posts the Same Picture Every Day**
MIT Tech Review – Feb 4, 2015
<http://www.technologyreview.com/view/534811/the-facebook-page-that-posts-the-same-picture-every-day/>
32. **No, non esiste nessuno studio americano su Toto Cutugno**
Vice – Feb 2, 2015
<http://www.vice.com/it/read/intervista-walter-quattrociocchi-studio-toto-cutugno-432>
33. **Toto Cutugno, la foto ossessiva su Facebook diventa un caso all'università americana**
Il Messaggero – Jan 31, 2014
http://www.ilmessaggero.it/TECNOLOGIA/HITECH/toto_cutugno_foto_ossessiva_facebook-caso-universita-amp-agrave-americana/notizie/1154377.shtml
34. **Can Scientists Explain Why People Are Obsessed With This Man's Picture?**
Vocativ – Jan 30, 2015
<http://www.vocativ.com/culture/society/can-scientists-explain-peoples-obsession-mans-picture/>
35. **Everyday The Same Picture: Becoming Popular On Facebook With Almost No Content**
Technology.Org – Jan 29, 2015
<http://www.technology.org/2015/01/29/everyday-picture-becoming-popular-facebook-almost-no-content/>
36. **The Language of the Elite, the Language of the Many**
Penguin Random House – Jan 15, 2015
<http://penguinrandomhouse.ca/hazlitt/blog/language-elite-language-many>
37. **Why English, Not Mandarin, Is the Language of Innovation**
Harvard Business Review – Jan 12, 2015
<https://hbr.org/2015/01/why-english-not-mandarin-is-the-language-of-innovation>
38. **Increíble mapa muestra cuáles son las lenguas más influyentes del mundo**
Muhimu – Jan 06, 2015
<http://muhimu.es/diversidad/lenguas-influyentes/>
39. **Links that Speak**
Language Magazine – Jan 06, 2015
<http://languagemagazine.com/?p=122852>

Items older than Jan 01, 2015 have been truncated.

Invited Talks

Information diffusion On and Offline

iSocial Workshop

Sep 27, 2016

Heraklion, Greece

Data-Driven Study of Human Behavior

Solstice Conference

Jun 20, 2016

Aveiro, Portugal

Human Behavior through the lens of Big Data <i>Workshop "Collective behavior in the big data area"</i>	Apr 14, 2016 <i>Toulouse, France</i>
Online Social Media for the Study of Language in Time and Space <i>CreatEvoLang</i>	Mar 20, 2016 <i>New Orleans, LA</i>
Social Data Mining and Analysis <i>Winter School on Graph Analytics and Applications</i>	Dec 16, 2015 <i>Porto, Portugal</i>
Information Diffusion <i>WinWorkshop</i>	Oct 3, 2015 <i>New York, NY</i>
Twitterology: The Science of Twitter <i>DataStorm 2015</i>	July 14, 2015 <i>Lisbon, Portugal</i>
Twitter and the City <i>UrbanNet Keynote</i>	Jun 1, 2015 <i>Zaragoza, Spain</i>
Language use through the lens of Big Data <i>NetSci-X 2015</i>	Jan 15, 2015 <i>Rio de Janeiro, Brazil</i>
Language use through the lens of Big Data <i>SocInfo 2014 Keynote</i>	Nov 13, 2014 <i>Barcelona, Spain</i>
Data Driven Models of Human Interaction <i>Dyad Workshop, SocInfo 2014 Keynote</i>	Nov 10, 2014 <i>Barcelona, Spain</i>
Data Driven Models of Human Interaction <i>Transitions in Discrete Choice, ECCS'14</i>	Sept 24, 2014 <i>Lucca, Italy</i>
Human Behavior in Time and Space <i>Tsighua University</i>	Aug 15, 2014 <i>Beijing, China</i>
The Study of Human Behavior through the use of Large Scale Geolocated Datasets <i>Taiyuan University of Technology</i>	Aug 12, 2014 <i>Taiyuan, China</i>
Human Behavior in Time and Space <i>A*Star Institute for High Performance Computing</i>	Jul 09, 2014 <i>Singapore</i>
Geolocalized data for the Study of Human Behavior <i>Facebook</i>	May 08, 2014 <i>Palo Alto, CA</i>
Geolocalized data for the Study of Human Behavior <i>Qatar Computing Research Institute</i>	Apr 22, 2014 <i>Doha, Qatar</i>
Geolocation and Human Behavior <i>CompleNet 2014 - 5th Workshop on Complex Networks</i>	Mar 12, 2014 <i>Bologna, Italy</i>
Online data for the Study of Individual and Collective Behavior <i>Yahoo! Research</i>	Mar 10, 2014 <i>Barcelona, Spain</i>
Big Data for the Study of Human Mobility and Behavior <i>Namur Center for Complex Systems</i>	Feb 25, 2014 <i>Namur, Belgium</i>
Geolocation and Human Behavior <i>2nd Workshop on Big Data and Social Media Keynote</i>	Nov 28, 2013 <i>Edinburgh, Scotland</i>
Human mobility and the impact of a localized highly pathogenic virus release <i>University of Glasgow</i>	Nov 27, 2013 <i>Glasgow, Scotland</i>
Evolution of Social Networks: Information Diffusion and Mobility <i>Strathclyde University</i>	Nov 26, 2013 <i>Glasgow, Scotland</i>

Evolution of Social Networks: Information Diffusion and Mobility <i>Temporal Networks in Human Dynamics, ECCS'13</i>	Sept 19, 2013 <i>Barcelona, Spain</i>
Twitter of Babel: Mapping World Lang. Through Microblogging Platforms <i>Universitat de les Illes Balears</i>	Sept 5, 2013 <i>Palma de Mallorca, Spain</i>
Twitter and the City: Geolocalization and Human Behavior <i>CUSP, NYU</i>	Jul 07, 2013 <i>New York</i>
From Individual Activity to Collective Attention: Insights from Large Scale SNA <i>Istanbul Technical University</i>	Jun 21, 2013 <i>Istanbul, Turkey</i>
The Role of Information Diffusion in the Evolution of Social Networks <i>ISCTE</i>	Jun 11, 2013 <i>Lisbon, Portugal</i>
From Individual Activity to Collective Attention: Insights from Large Scale SNA <i>MiR@W day: Mathematics of Big Data</i>	Mar 11, 2013 <i>Warwick, England</i>
From Individual Activity to Collective Attention: Insights from Large Scale SNA <i>Emory University</i>	Oct 26, 2012 <i>Atlanta, GA</i>
From Individual Activity to Collective Attention: Insights from Large Scale SNA <i>DTU Informatics</i>	Sept 24, 2012 <i>Copenhagen, Denmark</i>
Activity driven modeling of dynamic network <i>University of Warwick</i>	May 17, 2012 <i>Warwick, England</i>
Modeling Users' Activity on Twitter Networks: Validation of Dunbar's Number <i>Universidad Carlos III</i>	Nov 18, 2011 <i>Madrid, Spain</i>
Towards a characterization of behavior-disease models <i>Universitat de les Illes Balears</i>	Nov 15, 2011 <i>Palma de Mallorca, Spain</i>
Political Activity in Social Media <i>Wellesley College</i>	Oct 21, 2011 <i>Boston, MA</i>
Modelling the spatial spread of infections diseases: GLEaM <i>Paul-Ehrlich-Institut</i>	Dec 14, 2010 <i>Frankfurt, Germany</i>
Techno-Social Networks for the Modelling of Human Behaviour and Epidemic Spreading <i>Ecole Normale Supérieure</i>	Dec 3, 2010 <i>Lyon, France</i>
Complex Techno-social Networks For Epidemic Forecasting <i>Centro de Fisica do Porto</i>	Set 10, 2010 <i>Porto, Portugal</i>
Proxy Networks for the study of Human-Dynamics <i>Universita di Cagliari</i>	Jul 8, 2010 <i>Cagliari, Italy</i>
Complex Techno-social Networks For Epidemic Forecasting <i>Università Cattolica del Sacro Cuore</i>	Jan 7, 2010 <i>Brescia, Italy</i>
Complex Techno-social Networks For Epidemic Forecasting <i>Claremont Graduate University</i>	Oct 22, 2009 <i>Claremont, CA</i>
Complex Techno-social Networks For Epidemic Forecasting <i>ECCS'09</i>	Sept 15, 2009 <i>Conventy, UK</i>
Heisenberg Spin Chains: Simulations and Experiments <i>OSG Consortium All Hands Meeting</i>	Mar 5, 2008 <i>Raleigh, NC</i>
Human Dynamics Revealed Through Web Analytics <i>ETH Zurich</i>	Jul 31, 2008 <i>Zurich, Switzerland</i>

Human Dynamics Revealed Through Web Analytics

Centro de Fisica do Porto

Jul 11, 2008

Porto, Portugal

Optimization Heuristics for Cost Function Minimization

Argonne National Lab

Feb 29, 2008

Porto, Portugal

Hysteresis Of the Distance Dependent SK spin glass model

Universit  Cattolica del Sacro Cuore

Jul 18, 2007

Brescia, Italy

Teaching Experience

Tutorials.....

A Practical Introduction to Machine(s) Learning

Complex Networks

Nov 2016

Milan, Italy

Responsible for tutorial contents and lecturing.

<http://www.slideshare.net/bgoncalves/a-practical-introduction-to-machines-learning>

The Web of Cities and Mobility

ICWSM'16

May 2016

Cologne, Germany

Responsible for part of tutorial contents and lecturing.

<http://www.icwsm.org/2016/program/tutorial/#tap6>

Mining Georeferenced Data: Location-based Services and the Sharing Economy

PyData

Nov 2015

New York, NY

Responsible for course contents and lecturing.

<http://github.com/bmtgoncalves/Mining-Georeferenced-Data>

Making Sense of Data Big and Small

NetSci'15 School

Jun 1, 2015

Zaragoza, Spain

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/making-sense-of-data.html>

Invited Lectures.....

Twitterology - The Science of Twitter

Big Dive - Big Data Training Program

Jun 17, 2015

Turin, Italy

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/twitterology.html>

Social Data Mining and Analysis

IRP Statistical Advances for Complex Data Advanced Course

Sept 14-16, 2015

Barcelona, Spain

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/social-data-mining-and-analysis.html>

Data Mining and Social Network Analysis

*Institute of High Performance Computing, A*Star*

Jul 2014

Singapore

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/data-mining-and-social-network-analysis.html>

A First Introduction to Statistics

Big Dive - Big Data Training Program

Jun 2014

Turin, Italy

Responsible for course contents and lecturing.

<http://www.bigdive.eu/>

Social Network Analysis

Complex Networks Thematic School

April 14 - 18, 2014

Les Houches, France

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/social-network-analysis.html>

Data Mining

University of Namur

Invited lecture set at University of Namur for second year Master students.

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/data-mining.html>

Feb 2014
Namur, Belgium

MC 6 - Dynamics on Complex Networks

21 – 26 Oct 2013

Workshop and School on Dynamics, Transportation and Control in Complex Networks Ribeirão Preto, Brazil

Responsible for course contents and lecturing.

<http://www.bgoncalves.com/teaching/dynamical-processes-in-networks.html>

Regular Teaching

UE 41P/PC - Mécanique du Solide: *Spring 2015*

UE 43P - Ateliers Mathématiques:

UE 61P - Outils Numériques: (Programming Exercises)

UE 41P/PC - Mécanique du Solide: *Spring 2014*

UE 43P - Ateliers Mathématiques:

UE 41PC - Mécanique du Solide: *Spring 2013*

UE 43P - Ateliers Mathématiques:

INFO I690 - Foundations of Complex Systems: (Assistant Instructor) *Spring 2011*

INFO I601 - Introduction To Complex Systems: (Assistant Instructor) *Fall 2009*

Physics 421 - Thermal Physics: (Teaching Assistant) *Fall 2007*

Physics 361 - Analytical Mechanics.: (Teaching Assistant)

Languages

Portuguese: Native speaker

English: Bilingual

Italian: Bilingual

French: Fluent

Spanish: Conversational