

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. 01 – Oct. 01, 2017</i>
Università degli Studi di Torino, Turin, Italy:	<i>Apr. 24 – May. 06, 2017</i>
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:	<i>May. 2015 – Present</i>
Complex Systems Society (CSS) Council:	<i>Sept. 2012 – Present</i>

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 2018: 9th Workshop on Complex Networks
Boston, MAS
<http://complenet.weebly.com>
2. 6th International Workshop on Complex Networks and their Applications
Lyon, France
<http://complexnetworks.org/>
3. CompleNet 2017: 8th Workshop on Complex Networks
Dubrovnik, Croatia
http://complenet.org/CompleNet_2017/Home.html
4. ChASM 2016: Computational Approaches to Social Modeling
Workshop parallel to SocInfo 2016, Bellevue, WA
<http://chasm.weebly.com>
5. 5th International Workshop on Complex Networks and their Applications
Milan, Italy
<http://complexnetworks.org/>
6. 8th International Conference on Discrete Models of Complex Systems
Aveiro, Portugal
<https://www.ezconferences.com/c/summersolstice2016>
7. Complex Networks: from theory to interdisciplinary applications
Satellite meeting to Statphys26, Marseille, France
<http://complexnets2016.org/>

8. CompleNet 2016: 7th Workshop on Complex Networks
Dijon, France
http://complenet.org/CompleNet_2016/Home.html
9. Modeling and Mining Temporal Interactions (M2TI)
Workshop of the 9th International Conference on the Web and Social Media, Oxford, UK
<http://m2ti.weebly.com/>
10. ChASM 2014: Computational Approaches to Social Modeling
Workshop parallel to WebSci 2014, Bloomington, IN
<http://chasm.weebly.com>
11. Structure and Dynamics of Complex Networks
Les Houches Thematic School 2014, Les Houches, France
<http://leshouches2014.weebly.com>
12. NetSci 2014: International Workshop and Conference on Network Science
Bekeley, CA
13. TDN 2013: Temporal and Dynamic Networks: From Data to Models
Workshop parallel to NetSci 2013, Copenhagen, Denmark
<http://tdn2013.wix.com/tdn2013>
14. NetSci 2013: International Workshop and Conference on Network Science
Copenhagen, Denmark
<http://www.netsci2013.net>
15. ChASM 2013: Computational Approaches to Social Modeling
Workshop parallel to ICCS 2013, Barcelona, Spain
<http://chasm.weebly.com>
16. Focus Session: Physical Approaches to Social Modeling
APS March Meeting 2013, Baltimore, MD
17. ChASM 2012: Computational Approaches to Social Modeling
Workshop parallel to ICCS 2012, Omaha, NE
<http://chasm.weebly.com>
18. Focus Session: Complex and Co-evolving Networks
APS March Meeting 2012, Boston, MA

Program Committees

- Hypertext 2018
- WWW 2018
- 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

pyNASA

A Simple Python interface to NASA datasets

<https://bmtgoncalves.github.io/pyNASA/>

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)

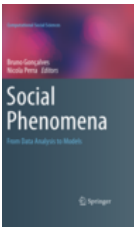
Computational infrastructure for epidemics research and education.

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

Publications

Books.....

1. **Twitterology: The Social Science of Twitter**
B. Gonçalves, N. Perra
Springer (2018) Forthcoming
2. **Complex Networks IX - Proceedings of the 9th Conference on Complex Networks CompleNet 2018**
K. Coronges, S. Cornelius, **B. Gonçalves**, R. Sinatra (Editors)
Springer (2018) Forthcoming
3. **Complex Networks VIII - Proceedings of the 8th Workshop on Complex Networks CompleNet 2017**
B. Gonçalves, R. Menezes, R. Sinatra, V. Zlatić (Editors)
Springer (2017) ISBN: 9783319542416
4. **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
5. **Social Phenomena: From Data Analysis to Models**
B. Gonçalves, N. Perra (Editors)
Springer (2015) ISBN: 9783319140100



Book Chapters.....

1. **Dynamical processes in time-varying networks**
B. Gonçalves, N. Perra
In "Communication Science in the Digital Age: New Frontiers in the Theory and Research of Interpersonal Networks"
Brooke Foucault-Weltes, Sandra González-Bailón (Editors)
Oxford University Press (2017) Forthcoming
2. **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: 9783319140108
3. **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

4. **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. **A Data-driven Approach to Predicting Ambulance Calls Across Geographies**

A. Noulas, C. Moffatt **B. Gonçalves**
Under Review

2. **Semantics of structural communities in online communication**

S. Scepanovic, I. Mishkovski, **B. Gonçalves**, T. H. Nguyen, P. Hui
Under Review

3. **The fall of the empire: The Americanization of English**

B. Gonçalves, L. Loureiro-Porto, J. J. Ramasco, D. Sánchez
Under Review arXiv: **1707.00781**

4. **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**

Journal Articles.....

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

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

1. **Semantic homophily in online communication: evidence from Twitter**

S. Sćepanović, I. Mishkovski, **B. Gonçalves**, N. Trung Hieu, P. Hui
Online Social Networks and Media **2**, 1 (2017) arXiv: **1606.08207**

2. **The happiness paradox: your friends are happier than you**

J. Bollen, **B. Gonçalves**, I. van de Leemput, G. Ruan
EPJ Data Science **6**, 4 arXiv: **1602.02665**

3. **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**

4. **Learning Spanish Dialects Through Twitter**

B. Gonçalves, D. Sánchez
RILI XVI **2**, 65 (2016) arXiv: **1511.04970**

5. **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)

6. **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**
7. **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**
8. **Human Diffusion and City Influence**
M. Lenormand, **B. Gonçalves**, A. Tugores, J. Ramasco
J. R. Soc. Interface **12**, 20150473 (2015) arXiv: **1501.07788**
9. **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)
10. **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)
11. **Crowdsourcing Dialect Characterization with Twitter**
B. Gonçalves, D. Sánchez
PLoS One **9**, E112074 (2014) arXiv: **1407.7094**
12. **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**
13. **Human mobility and the worldwide impact of localized Smallpox release**
B. Gonçalves, D. Balcan, A. Vespignani
Nature Scientific Reports **3**, 810 (2013)
14. **Characterizing scientific production and consumption in Physics**
Q. Zhang, N. Perra, **B. Gonçalves**, F. Ciulla, A. Vespignani
Nature Scientific Reports **3**, 1640 (2013)
15. **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**
16. **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**
17. **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**

18. **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**
19. **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**
20. **Activity driven modeling of dynamic networks**
N. Perra, **B. Gonçalves**, R. Pastor-Satorras, A. Vespignani
Nature Scientific Reports **2**, 469 (2012) arXiv: **1203.5351**
21. **Partisan Asymmetries in Online Political Activity**
M. Conover, **B. Gonçalves**, A. Flammini, F. Menczer
EPJ Data Science **1**, 6 (2012) arXiv: **1205.1010**
22. **Towards a characterization of behavior-disease models**
N. Perra, D. Balcan, **B. Gonçalves**, A. Vespignani
PLoS One **6**, e23084 (2011) arXiv: **1107.0997**
23. **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**
24. **Mood Assortativity in Online Social Networking**
J. Bollen, **B. Gonçalves**, G. Ruan, H. Mao
ALIFE **17**, 237 (2011) arXiv: **1103.0784**
25. **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)
26. **Modeling the spatial spread of infectious diseases: the GLocal 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)
27. **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)
28. **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)

29. **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**

30. **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)

31. **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**

32. **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)

33. **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**

34. **Anomalous Diffusion on the Hanoi Networks**

S. Boettcher, **B. Gonçalves**
Euro Phys. Lett. **84**, 30002 (2008), arXiv:cond-mat/**0802.2757**

35. **Geometry and Dynamics for Hierarchical Regular Networks**

S. Boettcher, **B. Gonçalves**, J. Azaret
J. Phys. A: Math. Theor. **41**, 335003 (2008), arXiv: **0805.3013**

36. **Hierarchical, Regular Small-World Networks**

S. Boettcher, **B. Gonçalves**, H. Guclu
J. Phys. A: Math. Theor. **41**, 252001 (2008), arXiv:cond-mat/**0712.1259**

37. **Human Dynamics Revealed Through Web Analytics**

B. Gonçalves, J. J. Ramasco
Phys. Rev. E **78**, 026123 (2008), arXiv:cs.HC/**0803.4108**

38. **Hysteretical Optimization In Spin Glasses**

B. Gonçalves, S. Boettcher
J. Stat. Mech. P01003 (2008), arXiv:cond-mat/**0710.2138**



39. **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**
40. **Transport on Weighted Networks: When Correlations are Independent of Degree**
J. Ramasco, **B. Gonçalves**
Phys. Rev. E **76**, 066106 (2007), arXiv:cond-mat/**0609776**
41. **Ensemble Inequivalence in Random Graphs**
J. Barré, **B. Gonçalves**
Physica A **386**, 212 (2007), arXiv:cond-mat/**0705.2385**
42. **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. **Everyday the Same Picture: Popularity and Content Diversity**
A. Bessi, F. Zollo, M. Del Vicario, A. Scala, F. Petroni, **B. Gonçalves**, W. Quattrociocchi
CompleNet'17 225, (2017) arXiv: **1501.07201**
2. **Topical differences between Chinese language Twitter and Sina Weibo**
Q. Zhang, **B. Gonçalves**,
NLPIT'16, 625 (2016) arXiv: **1512.07281**
3. **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**
4. **Dynamical Classes of Collective Attention in Twitter**
J. Lehmann, **B. Gonçalves**, J. J. Ramasco, C. Cattuto
WWW, 251 (2012) arXiv: **1111.1896**
5. **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)
6. **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)
7. **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)
8. **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**

9. **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)
10. **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**
11. **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**
12. **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**
13. **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. **Should the Americanisation (or Americanization) of English worry us?**
The Guardian – Jul 24, 2017
<https://www.theguardian.com/commentisfree/2017/jul/24/worry-americanisation-english-linguists>
2. **The Americans have replaced the Brits: US English more popular over the world**
AsiaNet News – Jul 17, 2017
<http://newsable.asianetnews.tv/life/american-english-more>
3. **Do you want fries with that? Data shows Americanization of English is rising**
The Guardian – Jul 13, 2017
<https://www.theguardian.com/us-news/2017/jul/13/american-english-language-study>
4. **Why having more connections on social media could make you a happier person**
World Economic Forum – Jun 28, 2017
<https://www.weforum.org/agenda/2017/06/why-having-more-connections-on-social-media-could-make-you-a-happier-person/>
5. **Does being On Twitter or Facebook Sometimes Make You Unhappy? Here's why**
HealthX24 – Jun 26, 2017
<http://www.healthx24.com/2017/06/26/social-media-unhappy/>
6. **Social Media Friend Count Linked to Happiness**
Counsel & Heal – Jun 26, 2017
<http://www.counselheal.com/articles/39732/20170626/twitter-happiness-popularity-paradox-sadness-friends.htm>
7. **Facebook, Twitter 'Addicts' Are Happier: Study**
News18 – Jun 23, 2017
<http://www.news18.com/news/tech/facebook-twitter-addicts-are-happier-study-1441099.html>

8. **Social media makes people feel unhappy and less popular, says study**
Financial Express – Jun 22, 2017
<http://www.financialexpress.com/health-3/social-media-makes-people-feel-unhappy-and-less-popular-says-study/731182/>
9. **Social media makes people feel unhappy, less popular**
The Statesman – Jun 22, 2017
<http://www.thestatesman.com/science/social-media-makes-people-feel-unhappy-less-popular-1498133072.html>
10. **Spending too much time on social media? You might feel more happy than your friends**
Economic Times, India – Jun 22, 2017
<http://economictimes.indiatimes.com/magazines/panache/spending-too-much-time-on-social-media-it-actually-makes-you-feel-unhappy-and-less-popular/articleshow/59271348.cms>
11. **Popular People on Social Media Are Happier IRL**
Yahoo! Beauty – Jun 21, 2017
<https://www.yahoo.com/beauty/popular-people-social-media-happier-irl-020458677.html>
12. **Your popular online friends are probably happier**
Futurity – Jun 21, 2017
<http://www.futurity.org/social-media-happiness-paradox-1465462/>
13. **Most people 'aren't as happy as their friends' on social media**
Science Daily – Jun 21, 2017
<https://www.sciencedaily.com/releases/2017/06/170621103040.htm>
14. **Analysis says social networking services may foster users' negative perceptions about their own popularity, happiness**
Phys.Org – Jun 21, 2017
<https://phys.org/news/2017-06-analysis-social-networking-foster-users.html>
15. **Study finds most people aren't as happy as their friends on social media**
EurekAlert – Jun 20, 2017
https://eurekalert.org/pub_releases/2017-06/iu-sfm062017.php
16. **Are your friends happier than you?**
SpringerOpen Blog – Jun 6, 2017
<http://blogs.springeropen.com/springeropen/2017/06/06/are-your-friends-happier-than-you/>
17. **Génération Z en danger face aux réseaux sociaux.**
Cerveau & Psycho – Apr 15, 2017
http://www.cerveauetpsycho.fr/ewb_pages/a/article-generation-z-en-danger-face-aux-reseaux-sociaux-38274.php
18. **word2vec and friends**
With The Best – Apr 12, 2017
<https://medium.com/withthebest/word2vec-and-friends-8b9c5994bd54>
19. **On different sides of China's internet firewall: Sina Weibo and Twitter**
NYU Center for Data Science Medium – Nov 8, 2016
<https://medium.com/@NYUDataScience/on-different-sides-of-chinas-internet-firewall-sina-weibo-and-twitter-88ff04d82bdb#.5qvqa8h2w>
20. **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>

21. **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>
22. **Visualizing the Global Network of Languages**
Scientific American – Jul 14, 2016
<http://blogs.scientificamerican.com/sa-visual/visualizing-the-global-network-of-languages/>
23. **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
24. **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%2ADcur%C2%ADsors-large-social-events-42166>
25. **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>
26. **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>
27. **"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/
28. **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>
29. **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/>
30. **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>
31. **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/>
32. **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>
33. **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>

34. **La infelicidad se contagia más rápido en Twitter que la alegría**
Prensa Educativa – Feb 22, 2016
<http://www.sutesuaem.org/news/educa/archivos/97909>
35. **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/>
36. **Neural Limitations of Social Relationships**
Graphite Publications – Feb 11, 2016
<http://graphitepublications.com/neural-limitations/>
37. **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>

Items older than Jan 01, 2016 have been omitted.

Invited Talks

Social Science in the Age of Big Data <i>International Conference "Computing Power for Global Systems"</i>	Oct 25, 2017 <i>Lucca, Italy</i>
Mobility in the Time of Pandemics <i>International Conference "Computing Power for Global Systems"</i>	Oct 24, 2017 <i>Lucca, Italy</i>
Spatio-Temporal Analysis of Language <i>LaNet'17 Keynote</i>	Sept 29, 2017 <i>Puebla, Mexico</i>
Geolocated datasets for urban science <i>WebSci'17</i>	Jun 25, 2017 <i>Troy, NY</i>
OpenNASA Data and API <i>NASA Datanauts Community Event</i>	Apr 6, 2017 <i>Troy, NY</i>
Information diffusion On and Offline <i>iSocial Workshop</i>	Sep 27, 2016 <i>Heraklion, Greece</i>
Data-Driven Study of Human Behavior <i>Solstice Conference</i>	Jun 20, 2016 <i>Aveiro, Portugal</i>
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>
Geolocated data for the Study of Human Behavior <i>Facebook</i>	May 08, 2014 <i>Palo Alto, CA</i>
Geolocated 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 <i>Centro de Fisica do Porto</i>	Jul 11, 2008 <i>Porto, Portugal</i>
Optimization Heuristics for Cost Function Minimization <i>Argonne National Lab</i>	Feb 29, 2008 <i>Porto, Portugal</i>
Hysteresis Of the Distance Dependent SK spin glass model <i>Università Cattolica del Sacro Cuore</i>	Jul 18, 2007 <i>Brescia, Italy</i>

Teaching Experience

Tutorials	
Machine(s) Learning and Data Science <i>Universidad Del Desarrollo</i> Responsible for tutorial contents and lecturing. https://github.com/bmtgoncalves/UDD	Oct 12, 2017 <i>Santiago, Chile</i>

Natural Language Processing From Scratch

PyGotham

Responsible for part of tutorial contents and lecturing.

<https://2017.pygotham.org/talks/natural-language-processing-from-scratch/>

Oct 7, 2017

New York, NY

word2vec and friends

O'Reilly AI

Responsible for tutorial contents and lecturing.

<https://www.safaribooksonline.com/library/view/oreilly-artificial-intelligence/9781491985250/video314969.html>

Sept 18, 2017

San Francisco, CA

Mining Geolocated Datasets

Lviv Data Science Summer School

Responsible for tutorial contents and lecturing.

<https://github.com/bmtgoncalves/LDSS17>

Jul 19, 2017

Lviv, Ukraine

A Practical Introduction to Spatial Datasets and Urban Applications

IC2S2'17

Responsible for part of tutorial contents and lecturing.

<http://geodata17.weebly.com/>

June 25, 2017

Köln, Germany

Analyzing Geolocated Data with Twitter

WebSci'17

Responsible for tutorial contents and lecturing.

<http://geodata17.weebly.com/>

June 25, 2017

Troy, NY

word2vec in Theory and Practice with Tensorflow

Byte Academy

Responsible for part of tutorial contents and lecturing.

<https://www.slideshare.net/bgoncalves/word2vec-in-theory-practice-with-tensorflow>

June 15, 2017

New York, NY

Spatial Datasets and Urban Applications

ICWSM'17

Responsible for part of tutorial contents and lecturing.

<http://urbandatascience.weebly.com/>

May 15, 2017

Montreal, Canada

word2vec and Friends

AI With the Best

Responsible for part of tutorial contents and lecturing.

<https://www.slideshare.net/bgoncalves/word2vec-and-friends>

Apr 29, 2017

Online

Machine(s) Learning with Neural Networks

NYC Data Science Study Group

Responsible for part of tutorial contents and lecturing.

<https://www.slideshare.net/bgoncalves/machines-learning-with-neural-networks>

Feb 13, 2017

New York, NY

A Practical Introduction to Machine(s) Learning

Complex Networks

Responsible for tutorial contents and lecturing.

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

Nov 2016

Milan, Italy

Human Mobility (with Mobile devices)

WWW'16

Responsible for course contents and lecturing.

<http://bgoncalves.com/teaching/human-mobility.html>

Apr 12, 2016

Montreal, Canada

The Web of Cities and Mobility

ICWSM'16

Responsible for part of tutorial contents and lecturing.

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

May 2016

Cologne, Germany

Mining Georeferenced Data: Location-based Services and the Sharing Economy **Nov 2015**
PyData *New York, NY*

Responsible for course contents and lecturing.
<http://github.com/bmtgoncalves/Mining-Georeferenced-Data>

Making Sense of Data Big and Small **Jun 1, 2015**
NetSci'15 School *Zaragoza, Spain*

Responsible for course contents and lecturing.
<http://www.bgoncalves.com/teaching/making-sense-of-data.html>

Invited Lectures.....

Spatial Data Mining, Analysis, and Visualization **Apr 24 – May 5, 2017**
Dipartimento di Informatica, Università Degli Studi di Torino *Turin, Italy*

Responsible for course contents and lecturing.
<https://bmtgoncalves.github.io/TorinoCourse/>

Twitterology - The Science of Twitter **Jun 17, 2015**
Big Dive - Big Data Training Program *Turin, Italy*

Responsible for course contents and lecturing.
<http://www.bgoncalves.com/teaching/twitterology.html>

Social Data Mining and Analysis **Sept 16–18, 2015**
IRP Statistical Advances for Complex Data Advanced Course *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 **Jul 2014**
*Institute of High Performance Computing, A*Star* *Singapore*

Responsible for course contents and lecturing.
<http://www.bgoncalves.com/teaching/data-mining-and-social-network-analysis.html>

A First Introduction to Statistics **Jun 2014**
Big Dive - Big Data Training Program *Turin, Italy*

Responsible for course contents and lecturing.
<http://www.bigdive.eu/>

Social Network Analysis **April 14 – 18, 2014**
Complex Networks Thematic School *Les Houches, France*

Responsible for course contents and lecturing.
<http://www.bgoncalves.com/teaching/social-network-analysis.html>

Data Mining **Feb 2014**
University of Namur *Namur, Belgium*

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>

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:	<i>Spring 2013</i>
UE 43P - Ateliers Mathématiques:	
INFO I690 - Foundations of Complex Systems: (Assistant Instructor)	<i>Spring 2011</i>
INFO I601 - Introduction To Complex Systems: (Assistant Instructor)	<i>Fall 2009</i>
Physics 421 - Thermal Physics: (Teaching Assistant)	<i>Fall 2007</i>
Physics 361 - Analytical Mechanics.: (Teaching Assistant)	

Languages

Portuguese: Native speaker

English: Bilingual

Italian: Bilingual

French: Fluent

Spanish: Conversational