

Ginestra Bianconi's Short Biography

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Timeline

- Aug 2015-Present: Reader at [SCHOOL OF MATHEMATICS, QUEEN MARY UNIVERSITY OF LONDON](#)
Director of the MSc in Network Science.
- 2013-Aug 2015: Lecturer at [SCHOOL OF MATHEMATICS, QUEEN MARY UNIVERSITY OF LONDON](#)
- 2009-2012: Assistant Professor at [DEPARTMENT OF PHYSICS, NORTHEASTERN UNIVERSITY](#)
- 2003-2009: Postdoc and Visiting Scientist at the [INTERNATIONAL CENTER FOR THEORETICAL PHYSICS \(ICTP\)](#) in the [CONDENSED MATTER AND STATISTICAL PHYSICS GROUP](#)
- 2002-2003: Postdoc Position at [DEPARTMENT OF PHYSICS, UNIVERSITE DE FRIBOURG;](#)
[ECONOPHYSICS GROUP](#)
- 1999-2002: Graduate Studies at [THE PHYSICS DEPARTMENT, NOTRE DAME UNIVERSITY,](#)
advisor Prof. [A.-L. BARABASI](#)
- 1993-1998: Undergraduate Studies at [PHYSICS DEPARTMENT UNIVERSITA DI ROMA "LA SAPIENZA",](#)
advisor Prof. [L. PIETRONERO](#)

Author of more than 110 papers,
76 Talks at International Meetings,
56 Invited Talks at International Meetings.

On the Editorial Board of the following journals

Scientific Reports
Frontiers in Interdisciplinary Physics
Chaos, Solitons and Fractals
Computational Social Science
Frontiers in Fractal Physiology

Organization of Workshop and Conferences

1. In the Topic Committee *Interdisciplinary and complex systems*
StatPhys
Lyon, France 18-22 July 2016
2. In the Programme Committee of
NetSci-x2016

Wroclaw, Poland 11-13 Jan 2016

3. Scientific Organizer
Network Geometry Workshop
QMUL, 16 July 2015
4. In the Programme Committee of
NetSci-x2015
Rio de Janeiro, Jan 2015
5. In the Programme Committee of
NetSci 2014
Berkley, June 2014
6. In the Programme Committee of
CompleNet 2014
Bologna, March 2014
7. In the Organization Committee of the
IQC workshop on quantum computation and complex networks
Waterloo, May 2013
In the Program Committee of the
Eighth International Conference on Complex Systems (ICCS 2011)
June 26 - July 1, 2011 Boston Marriott,
Quincy, MA, USA
8. In the Organizing Committee of
NetSci2010 The International Conference on Network Science
10-14 May, 2010 Boston, USA
9. In the Program Committee of the
International Conference 2nd Workshop on Complex Networks,
Rio de Janeiro, Brazil October 13-15, 2010
10. In the Organizing Committee of the School and Conference:
From Biological Networks to Cellular Function: Evolution, Dynamics and Spatial Organization,
ICTP, Trieste, Italy June 8-12 2009
11. Member of the Program Committee
International workshop on Complex Networks,(CompleNet2009)
Catania, Italy, May 26-28, 2009.
12. In the Italian Scientific Committee of the
Statphys 23 Satellite Meeting,
Complex Networks: from Biology to Information Technology
Pula, Cagliari, Italy 2-6 July 2007
13. Local Organizer of the School and Conference,
Structure and Function of Complex Networks
ICTP, Trieste, Italy May 18-28 2009.



Ginestra Bianconi

Queen Mary University of London
Statistical Mechanics, Network theory

Google Scholar

Indici citazioni	Tutte	Dal 2010
Citazioni	5987	4027
Indice H	37	28
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Titolo	1–156	Citata da	Anno
Power-law distribution of the world wide web	LA Adamic, BA Huberman, AL Barabási, R Albert, H Jeong, G Bianconi Science 287 (5461), 2115-2115	921	2000
Competition and multiscaling in evolving networks	G Bianconi, AL Barabási EPL (Europhysics Letters) 54 (4), 436	752	2001
Bose-Einstein condensation in complex networks	G Bianconi, AL Barabási Physical Review Letters 86 (24), 5632	558	2001
GABAergic hub neurons orchestrate synchrony in developing hippocampal networks	P Bonifazi, M Goldin, MA Picardo, I Jorquera, A Cattani, G Bianconi, ... Science 326 (5958), 1419-1424	289	2009
Theory of rumour spreading in complex social networks	M Nekovee, Y Moreno, G Bianconi, M Marsili Physica A: Statistical Mechanics and its Applications 374 (1), 457-470	275	2007
The structure and dynamics of multilayer networks	S Boccaletti, G Bianconi, R Criado, CI Del Genio, J Gómez-Gardeñes, ... Physics Reports 544 (1), 1-122	247	2014
Mean field solution of the Ising model on a Barabási–Albert network	G Bianconi Physics Letters A 303 (2), 166-168	141	2002
Assessing the relevance of node features for network structure	G Bianconi, P Pin, M Marsili Proceedings of the National Academy of Sciences 106 (28), 11433-11438	129	2009
Comparing association network algorithms for reverse engineering of large-scale gene regulatory networks: synthetic versus real data	N Soranzo, G Bianconi, C Altafini Bioinformatics 23 (13), 1640-1647	108	2007
Number of loops of size h in growing scale-free networks	G Bianconi, A Capocci Physical review letters 90 (7), 078701	107	2003
The stripe critical point for cuprates	A Bianconi, G Bianconi, S Caprara, D Di Castro, H Oyanagi, NL Saini Journal of Physics: Condensed Matter 12 (50), 10655	97	2000
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Evolution and control of oxygen order in a cuprate superconductor N Poccia, M Fratini, A Ricci, G Campi, L Barba, A Vittorini-Orgeas, ... Nature materials 10 (10), 733-736	88	2011
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Dynamical and bursty interactions in social networks J Stehlé, A Barrat, G Bianconi Physical review E 81 (3), 035101	80	2010
Growing multiplex networks V Nicosia, G Bianconi, V Latora, M Barthelemy Physical review letters 111 (5), 058701	77	2013
Congestion phenomena on complex networks D De Martino, L Dall'Asta, G Bianconi, M Marsili arXiv preprint arXiv:0808.0584	77	2008
Social network dynamics of face-to-face interactions K Zhao, J Stehlé, G Bianconi, A Barrat Physical review E 83 (5), 056109	61	2011
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Emergence of weight-topology correlations in complex scale-free networks G Bianconi EPL (Europhysics Letters) 71 (6), 1029	53	2005
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G Bianconi, M Marsili Journal of Statistical Mechanics: Theory and Experiment 2005 (06), P06005	47	2005
The strain of CuO₂ lattice: the second variable for the phase diagram of cuprate perovskites S Agrestini, NL Saini, G Bianconi, A Bianconi Journal of Physics A: Mathematical and General 36 (35), 9133	46	2003
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The strain quantum critical point for superstripes in the phase diagram of all cuprate perovskites A Bianconi, NL Saini, S Agrestini, DD Castro, G Bianconi International Journal of Modern Physics B 14 (29n31), 3342-3355	42	2000
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- [A minimal model for congestion phenomena on complex networks](#) 10 2009
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- [Dynamics of condensation in growing complex networks](#) 10 2008
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Viable flux distribution in metabolic networks		
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A Bianconi, S Agrestini, G Bianconi, D Di Castro, NL Saini
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[Self-Organized Networks as a Representation of Quantum Statistics](#) 4 2000
G Bianconi
International Journal of Modern Physics B 14 (29n31), 3356-3361

[Emergent Complex Network Geometry](#) 3 2015
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Scientific reports 5

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[Statistical mechanics of the “Chinese restaurant process”: Lack of self-averaging, anomalous finite-size effects, and condensation](#) 3 2009
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Physical Review E 80 (6), 066118

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[Critical threshold and dynamics of a general rumor model on complex networks](#) 3 2005
M Nekovee, Y Moreno, G Bianconi, M Marsili
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[Self-organized critical network dynamics](#) 3 2003
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Mesoscopic Structures Reveal the Network Between the Layers of Multiplex Datasets		
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Multiplex networks with heterogeneous activities of the nodes		
D Cellai, G Bianconi	1	2015
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Degree correlations in signed social networks		
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Complex Quantum Network Manifolds in Dimension $d > 2$ are Scale-Free		
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Scientific reports 5, 13979		
Percolation in networks of networks with random matching of nodes in different layers		
G Bianconi, SN Dorogovtsev	1	2014
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The controllability of networks is determined by the density of low in-degree and low out-degree nodes		
G Menichetti, G Bianconi, L Dall'Asta	1	2014
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A Halu, G Bianconi	1	2012
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Quantization of fields G Bianconi, C Rahmede The European Physical Journal B 85 (6), 1-7	1	2012
Extrasynaptic release of serotonin affects the social dynamics of leeches G Bisson, G Bianconi, V Torre Extrasynaptic neurotransmission as a way of modulating multiple neuronal ...	1	2012
On dynamic network entropy in cancer J West, G Bianconi, S Severini, A Teschendorff arXiv preprint arXiv:1202.3015	1	2012
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Linear and nonlinear methods for gene regulatory network inference N Soranzo, G Bianconi, C Altafini Nonlinear Control Systems 7 (1), 533-538	1	2007
Non perturbative renormalization group approach to surface growth MA Munoz, G Bianconi, C Castellano, A Gabrielli, M Marsili, L Pietronero Computer physics communications 121, 358-362	1	1999
Charge Stripes Formation by X-Ray Illumination in High T_c Superconductors G Bianconi, D Di Castro, NL Saini, A Bianconi, M Colapietro, A Pifferi AIP CONFERENCE PROCEEDINGS, 358-371	1	1999
Interdisciplinary and physics challenges of network theory G Bianconi EPL (Europhysics Letters) 111 (5), 56001		2015
Critical behavior at a dynamic vortex insulator-to-metal transition N Poccia, TI Baturina, F Coneri, CG Molenaar, XR Wang, G Bianconi, ... Science 349 (6253), 1202-1205		2015
Emergence of multiplex communities in collaboration networks F Battiston, J Iacovacci, V Nicosia, G Bianconi, V Latora arXiv preprint arXiv:1506.01280		2015
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Statistical mechanics of random geometric graphs: Geometry-induced first-order phase transition M Ostilli, G Bianconi Physical Review E 91 (4), 042136		2015
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G Bianconi	
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G Menichetti, G Bianconi, E Giampieri, G Castellani, D Remondini	
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G Bianconi	
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Entropy rate of non-equilibrium growing networks	2012
A Halu, K Zhao, S Severini, G Bianconi	
APS Meeting Abstracts 1, 52013	
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A Bianconi, D Di Castro, NL Saini, G Bianconi	
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Dynamical network approach for social interactions	2011
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Non-neutral theory of biodiversity: Bose-Einstein condensation in ecosystems	2010
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Dynamical interaction networks	2010
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The Neuroscientist Comments	2010
P Bonifazi, M Goldin, MA Picardo, I Jorquera, A Cattani, G Bianconi	
PART 2: NONLINEAR AND PLASMA PHYSICS, FULID DYNAMICS, AND RELATED TOPICS-RAPID COMMUNICATIONS-Interdisciplinary physics-Flux distribution of metabolic networks close to optimal biomass production	2008

[production](#)

G Bianconi

Physical Review-Section E-Statistical Nonlinear and Soft Matter Physics 78 ...

[A formal model of logical and virtual networks](#)

H Seyed-allaei, G Bianconi, M Marsili

Phys. Rev. E 73 (cond-mat/0505588), 046113

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[DISORDER TO ORDER-LIKE TRANSITION IN La₂CuO₄ 1 SUPERCONDUCTOR INDUCED BY HIGH INTENSITY X-RAYS](#)

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2002

[Bose-Einstein condensation and multiscaling in evolving scale-free networks](#)

G Bianconi, B Albert-Laszlo

APS Meeting Abstracts 1, 27008

2002

[The strain quantum critical point for superstripes](#)

A Bianconi, D Di Castro, G Bianconi, NL Saini

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2001

[Response-TECHNICAL COMMENTS-Power-Law Distribution of the World Wide Web](#)

AL Barabasi, R Albert, H Jeong, G Bianconi

Science-International Edition-AAAS 287 (5461), 2274-2278

2000

[Non perturbative renormalization group approach to surface growth](#)

G Bianconi, C Castellano, A Gabrielli, M Marsili, L Pietronero

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1998

[TEMPERATURE AND X-RAY ILLUMINATION EFFECTS IN OXYGEN DOPED La₂CuO₄](#)

G CAMPI, D DI CASTRO, C DELL'OMO, S AGRESTINI, NL SAINI, ...

[Random graphs](#)

G Bianconi

SMR 1656, 3

[Text S1-Supporting Information of the paper” Entropy of dynamical networks”](#)

K Zhao, M Karsai, G Bianconi

[METALLIC STRIPES IN OXYGEN DOPED La](#)

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