

Walter Quattrociocchi

SUMMARY

Walter Quattrociocchi is an Associate Professor at the Sapienza University of Rome, leading the Center of Data Science and Complexity for Society (CDCS).

His research interests include data science, network science, cognitive science, and data-driven modeling of dynamic processes in complex networks.

Professor Quattrociocchi has published extensively in peer-reviewed conferences and journals, including PNAS. His research in misinformation spreading has informed the Global Risk Report 2016 and 2017 of the World Economic Forum. International media have covered them extensively, including Scientific American, New Scientist, The Economist, The Guardian, New York Times, Washington Post, Bloomberg, Fortune, Poynter, and The Atlantic). He published 3 books: “Misinformation. Guida alla società dell’informazione e della credulità” (Franco Angeli), “Liberi di Crederci. Informazione, Internet e Post Verità” with Codice Edizioni for the dissemination of his results, and “Polarizzazioni: Informazioni, Opinioni e altri demoni dell’infosfera” (Franco Angeli).

In 2017, Professor Quattrociocchi coordinated the round table on Fake News and Universities and Research's role in contrasting fake news chaired by the President of Italy's Chamber of Deputies, Mrs. Laura Boldrini. In 2018 he was the scientific Advisor of the Italian Communication Authority (AGCOM), and in 2020 a Member of the Task Force to contrast Hate Speech nominated by the Minister of Innovation.

Recently he is one of the Principal Investigator of the IRIS research coalition (UK/G7) to contrast misinformation about vaccine hesitancy and climate change. In 2023, he has been appointed for the International Visitor Leadership Program (IVLP) by the US State Department on the topic of Data-Driven Policies.

Professor Quattrociocchi is regularly invited for keynote speeches and guest lectures at major academic and other organizations.

Bibliometrics

h-index: **30** (Scopus), **40** (Google Scholar)

Total Citations: **6167** (Scopus), **14346** (Google Scholar)

I-10 index: **66** (Google Scholar)

1. EDUCATION AND ACADEMIC CAREER

1.2 EDUCATION

- 2012 Ph.D. in Logic and Computer Science - University of Siena (Italy)
- 2009 Master Degree (Summa Cum Laude) in Computer Science - University of Parma (Italy)
- 2007 Bachelor's degree in computer science - University of Siena (Italy)

1.3 EMPLOYMENT

- 11/2020 - Present Associate Professor Sapienza University of Rome (Qualified for Full Professorship in INF/01)
- 09/2020 – 10/2020 Associate Professor University Ca'Foscari, Venezia
- 09/2017 – 08/2020 Assistant Professor (RTDb) (since August 2018 ASN qualified for Associate Professorship in INF/01) – University of Venice Ca' Foscari

08/2014 - 08/2017 Assistant Professor (RTDa) IMT Lucca
08/2013 - 08/2014 Assistant Professor (Assegno di Ricerca) - IMT Lucca
01/2013 - 08/2013 Postdoc Researcher - Northeastern University, Boston, (USA)

1.4 VISITING PERIODS

03/2023 US State Department – International Visitor Leadership Program (IVLP) (Washington, Dallas, Sacramento, Denver)
03/2015 Cambridge University, UK (Host Prof. B. Bollobas)
06/2013-06/2014 Northeastern University, Boston US (Host Prof. A. Vespignani)
07/2012-08/2012 ISI Foundation Torino, Turin Italy (Host Prof. A. Vespignani)
02/2012 – 05/2012 Northeastern University, Boston US (Host Prof. A. Vespignani)

1.5 INSTITUTIONAL RESPONSABILITIES

06/2023 Member of the Task Force for the Pandemic Plan (NPI) 2023-26 for the Ministry of Health
2021-Ongoing Teaching Committee in the Ph.D. Program in Computer Science at Sapienza University of Rome
10/2020- 02/2021 Member of the Expert Group on Hate Speech (Ministry of Innovation)
04/2020- 12/2021 Group coordinator of the Ministerial Task Force on Data against Covid-19 (Social and Economic Impact)
10/2019- 10/2020 Teaching Committee of the Ph.D. Program in Computer Science at Ca’Foscari University of Venice
01/2018- 01/2020 Scientific Advisor for AGCOM (Italian Authority for Communication) about the “Impact of digital platform in the information space”
05/2017 Coordinator of the round table on Fake News chaired President of Chamber of Deputies, Italy

1.6 OTHER APPOINTMENTS

2020-2023 Associated Member of Centro Ricerche Enrico Fermi (IT)
2016 - 2020 Associated Member Istituto di Sistemi Complessi CNR (IT)

2. TEACHING ACTIVITIES

2.1 COURSES

a.a. 2022/23 Data-Driven Modeling of Complex Systems, Master Degree in Data Science, Sapienza Università di Roma (6 CFU)
a.a. 2022/23 Metodologie di Programmazione, Bachelor Degree in Computer Science, Sapienza Università di Roma (6 CFU)
a.a. 2022/23 Data Science and Complexity, Master Degree in Economics, Sapienza Università di Roma (9 CFU)

- a.a. 2021/22 Metodologie di Programmazione, Bachelor Degree in Computer Science, Sapienza Università di Roma (6 CFU)
- a.a. 2021/22 Customer Intelligence e Logiche dei Big Data, Master Degree in Economics, Sapienza Università di Roma (9 CFU)
- a.a. 2020/21 Metodologie di Programmazione, Bachelor Degree in Computer Science, Sapienza Università di Roma (6 CFU)
- a.a. 2020/21 Customer Intelligence e Logiche dei Big Data, Master Degree in Economics, Sapienza Università di Roma (9 CFU)
- a.a. 2019/2020 Social Network Analysis, Bachelor Degree in Computer Science, Università di Venezia (6 CFU)
- a.a. 2019/2020 Sistemi informativi per i beni culturali, Master Degree in Economia e Gestione delle Attività Culturali, Università di Venezia (6 CFU)
- a.a. 2018/2019 Data Management, Bachelor Degree in Economia e Commercio, Università di Venezia (6CFU)
- a.a. 2018/2019 Digital Humanities, Collegio Internazionale Università di Venezia (6 CFU)
- a.a. 2018/2019 Basi di Dati, Bachelor Degree in Computer Science, Università di Venezia (6 CFU)
- a.a. 2018/2019 Sistemi informativi per i beni culturali, Master Degree in Economia e Gestione delle Attività Culturali, Università di Venezia (6 CFU)
- a.a. 2017/2018 Basi di Dati, Bachelor Degree in Computer Science, Università di Venezia (6 CFU)
- a.a. 2017/2018 Digital Humanities, Collegio Internazionale Università di Venezia (6 CFU)
- a.a. 2017/2018 Sistemi informativi per i beni culturali, Master Degree of Economia e Gestione delle Attività Culturali, Università di Venezia (6 CFU)
- a.a. 2017/2018 Elementi di Informatica per l'Economia, Bachelor Degree in Economics, Università di Venezia (6 CFU)
- a.a. 2016/2017 Computational Social Science, Ph.D Course, IMT Lucca
- a.a. 2016/2017 Advanced Topics in Complex Networks, Ph.D Course, IMT Lucca
- a.a. 2015/2016 Algorithms, Ph.D Course, IMT Lucca
- a.a. 2015/2016 Computational Social Science, Ph.D Course, IMT Lucca
- a.a. 2015/2016 Advanced Topics in Complex Networks, Ph.D Course, IMT Lucca
- a.a. 2014/2015 Computational Social Science, Ph.D Course, IMT Lucca
- a.a. 2014/2015 Advanced Topics in Complex Networks, Ph.D Course, IMT Lucca
- a.a. 2011/2012 Algorithms – (Contract Professor) Master Degree in Bioinformatics at University of Tor Vergata (2 CFU)
- a.a. 2010/2011 Algorithms – (Contract Professor) Master Degree in Bioinformatics at University of Tor Vergata (2 CFU)

2.2 MENTORING

Postdocs

2023-Ongoing	Dr. Saverio Storani, Assistant Professor, Sapienza University of Rome
2022-Ongoing	Dr. Lorenzo Alvisi, Assistant Professor, Sapienza University of Rome
2022-Ongoing	Dr. Michele Avalle, Assistant Professor, Sapienza University of Rome
2017 - 2020	Dr. Fabiana Zollo – Assistant Professor Università di Venezia
2018 - 2021	Dr. Matteo Cinelli, Postdoc Istituto Sistemi Complessi, CNR
2018 - 2019	Dr. Ana Lucia Schmidt , Postdoc Università di Venezia
2018 - 2019	Dr. Emanuele Brugnoli, Postdoc Istituto Sistemi Complessi CNR
2016 - 2017	Dr. Michela Del Vicario, Postdoc Scuola IMT Lucca, Italy

Ph.D Students

2022-Ongoing	Emanuele Sangiorgio (Supervisor) Data Science in Social Dynamics, Sapienza University of Rome
2022-Ongoing	Shayan Alipour (Supervisor) Data Science in Social Dynamics, Sapienza University of Rome
2020 - Ongoing	Gabriele Etta (Supervisor) Data Science in Social Dynamics, Sapienza University of Rome
2018 - 2022	Alessandro Galeazzi. (Co-supervisor) Quantifying the impact of social bots on online social dynamics. University of Brescia
2015 - 2018	Ana Lucia Schmidt. (Supervisor) News spreading on a global scale, IMT Lucca
2014 - 2017	Alessandro Bessi. (Supervisor) Quantitative understanding of online misinformation, IUSS Pavia.
2014 - 2016	Michela Del Vicario. (Supervisor) Data driven modeling of social contagion, IMT Lucca
2014 - 2016	Fabiana Zollo. (Supervisor) Sensing social dynamics in the misinformation era, IMT Lucca

Master Students

a.a 2022/23	Sapienza University of Rome: Bartiromo Liborio, Quattrococchi Alessandro, Alipour Shayan, Damara Edoardo, Fabrizi Marco, Simon Zollo, Emanuele Ruggeri, Giulio Pecile, Edoardo Di Martino, Edoardo Loru
2021/22	Sapienza University of Rome Baldassi Massimiliano, Caruso Alessandro, Sangiorgio Emanuele, Russo Serena, Popa Victoria, Borro Francesco
a.a 2020/21	Sapienza University of Rome: Damiano Koepke, Giorgia Abramo, Giorgio Puccia
a.a 2019/2020	Ca' Foscari University of Venice: Federica Iozzia, Alice Zanzi, Maddalena Rainaldi, Francesca Basso, Jurgen Gurakuqi, Sofia

- Giorgia Vescovo, Bianca Bauemberger, Valentina Zini, Alessio Iezzi
- a.a. 2018/2019 Ca' Foscari University of Venice: Marta Poloni, Federica Iozzia, Ginevra Ussardi, Maria Nolla Colmer.
- a.a. 2017/2018 Ca' Foscari University of Venice: Antonio Peruzzi, Beatrice De Menego
- a.a. 2010/2011 University of Rome Tor Vergata. Christian Mastromonaco

3. RESEARCH

3.1 RESEARCH FOCUS

His research focuses on developing data-driven and network-based models of complex systems. The activities aim to detect specific patterns and then develop **mathematical models** and **computational tools** to better understand, anticipate and eventually control complex dynamical systems (e.g., social dynamics, mobility patterns, epidemic models).

3.2 GROUP LEADERSHIP

- 2020-Ongoing Head of the Center for Data Science and Complexity for Society, Sapienza
10 People
- 2017-2020 Head of the Laboratory of Data and Complexity at Ca' Foscari University of Venice. The team is composed of 2 Assistant Professor, 3 Postdocs and 3 Ph.D. Students
- 2014 - 2017 Head of the Laboratory of Computational Social Science at IMT Lucca. The team was composed of 4 Ph.D. students and 1 Postdoc

3.3 MAJOR COLLABORATIONS (selected highlights only)


- S. Van Der Linden, University of Cambridge, Misinformation Dynamics
- A. Baronchelli, City University of London, Social Dynamics
- B. Bollobas, University of Cambridge (UK), Self-healing percolation.
- H. Gene Stanley, Boston University (USA), Misinformation Spreading.
- C.S. Sunstein, Harvard University (USA), Misinformation Spreading
- A. Applebaun, London School of Economics (and Pulitzer Laureate) (UK), Polarization Online
- L. Pietronero, Sapienza University (Italy), Data-driven modeling of Social Dynamics.
- C. Betsch, Erfurt University (Germany), Vaccines Debate Online
- R. Dunlap, Oklahoma State University (USA), Climate Change.
- B. Uzzi, Northwestern University (USA), Social Media Algorithms and Polarization.
- Y. Moreno, University of Zaragoza (Spain), Emergence of Echo Chambers online.
- A. Vespignani, Northeastern University, PostDoc Supervisor
- N. Santoro, Carleton University – Ph.D Supervisor
- E. Lodi, University of Siena – Ph.D Supervisor

3.4 CONFERENCE ORGANIZATION

- 2019 Roundtable of Information Operations (Committed by Facebook), Binario F, Roma, Chair

- 2018 Data and Complexity, International Workshop, University of Venice, Organizing Committee
- 2016 Complex Networks 2016, International Workshop on Complex Networks and their Applications, Milan, Italy, Organizing Committee
- 2016 International Conference on Computational Social Science (ICCSS 2016), Chicago, US, Organizing Committee
- 2015 International Conference on Computational Social Science (ICCSS 2015), Helsinki, Finland, Organizing Committee
- 2014 European Conference on Complex Systems (ECCS 2014), Lucca Italy, Organizing Committee
- 2009 E-Rep Social Knowledge for E-governance 2009, Gargonza, Italy, Organizing Committee

3.5 RESEARCH PROJECTS

- 2023 MUSMA Project, PRIN 2022 (200k Total, 80k Sapienza)
Head of Unit (**Principal Investigator**)
- 2023 Cresp Project – Ministry of Health on Pandemic Management
(120k Total, 20k Sapienza)
Head of Unit (**Principal Investigator**)
- 2021 Google Grant for Data Science and Complex System research (30k)
(**Principal Investigator**)
- 2021 Facebook Grant for Data Science and Complex Systems research (25k)
(**Principal Investigator**)
- 2021-Ongoing IRIS Research Coalition – UK/G7 Founded Project
(Head of Unit - **Principal Investigator**)
(Total GBP 4.5M, Sapienza 1M)
- 2018 – 2019 Open Society Foundation - ARENA Project (**Principal Investigator**)
“Analysis of Core Narrative of Echo-Chambers on Social Media”
(Eur 60k)
- 2019 – 2020 EU H2020 – Science in and with Society – QueST (Investigator)
nr.824634 Eur (Tot. 1200k)
- 2016 - 2017 Extrapola s.r.l. Measuring online social dynamics
(Principal Investigator) (Eur 65k)
- 2015 - 2017 EU FET Open project SOBIGDATA (Node Team Member)
nr. 654024
- 2014 - 2017 EU IP project MULTIPLEX nr.317532 (Node Leader Team Member)
“Foundational Research on MULTIllevel comPLEX
networks and systems”
- 2014 - 2016 EU FET Open project SIMPOL (Node Team Member) nr. 610704 
- 2014 - 2016 EU FET Open project DOLFINS (Node Team Member) nr. 640772
- 2013 - 2015 EU FET Open project PLEASED (Node Leader Team Member)
“PLants Employed As SEnsing Devices”

2013 - 2014 EU FET Open project FOC (Node Team Member)
nr.255987 “Forecasting Financial Crisis”

3.6 INVITED TALK AND HONORARY LECTURES (selected highlights only)

- 07/2023 Ultra-European Network – Lectio Magistralis and Ethic Research Award
- 10/2022 European Computer Science Summit (ECSS 2022) Invited Speaker
- 09/2020 Political Communication Networks – Netsci2020 (Keynote Speaker)
- 03/2020 CUGH Meeting (Consortium of Universities for Global Health)
(Keynote Speaker)
- 11/2018 Paris, L’Oreal Scientific Advisory Board Meeting:
“Use of computational tools to better understand and
anticipate information and disinformation spreading”
- 10/2018 Graz University (Lectio Magistralis):
“From Confirmation Bias to Echo Chambers”: a data-driven approach”.
- 09/2018 University of Verona. (Lectio Magistralis Phd Graduation Ceremony):
“From Confirmation Bias to Echo Chambers: a data-driven approach”.
- 10/2018 Pisa. Internet Festival. (Datarazia):
“From Confirmation Bias to Echo Chambers: a data-driven approach”.
- 09/2018 Treviso (Festival della Statistica):
“From Confirmation Bias to Echo Chambers: A data-driven approach”.
- 07/2018 Boston University (USA):
“From Confirmation Bias to Echo Chambers, A data-driven approach”.
- 07/2018 Erfurt (Germany) Biss Summer school:
“From Confirmation Bias to Echo Chamber. A data-driven approach”.
- 06/2018 Rome. ISTAT Conference:
“Misinformation Spreading on Social Media”.
- 11/2017 Milan. Università Bocconi (Science for Piece):
“Democrazia in crisi, fra populismo e post-verità.”
- 10/2017 CERN Geneva (EBU News and Technology Seminar):
“Post-truth society under the lens of Science”.
- 05/2017 Montecitorio Roma:
“Post-truth Under the lens of Science”.
- 02/2017 Bruxelles DGConnect (EU Commission): “Fake News”.
- 02/2017 CNR Rome: “Misinformation Spreading”.
- 04/2016 Bratislava, SL - Global Security Forum: “Misinformation Spreading”.
- 11/2015 World Economic Forum, Geneva, Switzerland:
“The perils of online misinformation”.
- 04/2015 Università della Svizzera Italiana, Lugano:
“Collective attention in the age of misinformation”.
- 03/2015 Cambridge University, UK: “Conspiracy and Misinformation”.

3.7 REFEREE, REVIEWS AND EDITORIAL BOARDS

He regularly serves as a reviewer for international grant programs, among which **ERC** program. He even serves as a referee for many international journals and conferences, including **PNAS, Nature, PLoS One, Theoretical Computer Science, WWW**, and many others.

Since 2023: Associated Editor for **ACM Transactions on the Web**

Since 2021: Associated Editor for **Nature Scientific Report**

4 SUMMARY OF SCIENTIFIC PRODUCTION

Journal Papers: 48
 Conference Papers: 20
 Book Chapters: 4
 Edited Books: 1
 Dissemination Books: 3

Total Impact factor: **248,24**

Total Citations: **6167** (Scopus), **14346** (Google Scholar)

Average Citations per Product: **84.47** (6167 citations on 73 papers from Scopus)

Hirsch (H) index: Scopus **30**, Google Scholar **40**

Normalized H index* (*Last author by convention in interdisciplinary works is the Principal Investigator <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5510206/>)

Citations/per year	2016	2017	2018	2019	2020	2021	2022	Today
Google Scholar	404	587	767	1121	2083	3151	3322	1729
Scopus	184	222	314	496	771	1395	1525	895

4.1 PUBLICATIONS SELECTED FOR THE EVALUATION

Some of the papers listed here have been the subject of one paper on *Scientific American* ([Inside the Echo Chamber](#)) and 2 cover papers of “*Le Scienze*” (one of which has been translated for the French, German, Spanish, and Czech Edition).

Results from this research corpus served to inform the Global Risk Report of the World Economic Forum in 2016 and 2017

(<https://www.weforum.org/agenda/2016/01/q-a-walter-quattrociocchi-digital-wildfires/>
<http://reports.weforum.org/global-risks-2017/acknowledgements/>) and many other international policy documents.



1. Del Vicario, M., Bessi, A., Zollo, F., Petroni, F., Scala, A., Caldarelli, G., ... & Quattrociocchi, W. (2016). **The spreading of misinformation online**. *Proceedings of the national academy of Sciences*, 113(3), 554-559.
Bibliometrics: Citations 1057 (Scopus), 2298 (Google Scholar), IF 9.7

Relevant Scientific Citations (Selection)

- Ecker, Ullrich KH, Stephan Lewandowsky, John Cook, Philipp Schmid, Lisa K. Fazio, Nadia Brashier, Panayiota Kendeou, Emily K. Vraga, and Michelle A. Amazeen. "The psychological drivers of misinformation belief and its resistance to correction." *Nature Reviews Psychology* 1, no. 1 (2022): 13-29.
- Ruths, D. (2019). The misinformation machine. *Science*, 363(6425), 348-348.
- Grinberg, N., Joseph, K., Friedland, L., Swire-Thompson, B., & Lazer, D. (2019). Fake news on Twitter during the 2016 US presidential election. *Science*, 363(6425), 374-378.
- Vosoughi, S., Roy, D., & Aral, S. (2018). The spread of true and false news online. *Science*, 359(6380), 1146-1151.
- Ren, X. L., Gleinig, N., Helbing, D., & Antulov-Fantulin, N. (2019). Generalized network dismantling. *Proceedings of the National Academy of Sciences*, 116(14), 6554-6559.
- Amato, R., Lacasa, L., Diaz-Guilera, A., & Baronchelli, A. (2018). The dynamics of norm change in the cultural evolution of language. *Proceedings of the National Academy of Sciences*, 115(33), 8260-8265.
- Bovet, A., & Makse, H. A. (2019). Influence of fake news in Twitter during the 2016 US presidential election. *Nature communications*, 10(1), 7.
- Shao, C., Ciampaglia, G. L., Varol, O., Yang, K. C., Flammini, A., & Menczer, F. (2018). The spread of low-credibility content by social bots. *Nature communications*, 9(1), 4787.
- Shu, K., Sliva, A., Wang, S., Tang, J., & Liu, H. (2017). Fake news detection on social media: A data mining perspective. *ACM SIGKDD Explorations Newsletter*, 19(1), 22-36.
- Lewandowsky, S., Ecker, U. K., & Cook, J. (2017). Beyond misinformation: Understanding and coping with the "post-truth" era. *Journal of Applied Research in Memory and Cognition*, 6(4), 353-369.

Media Coverage (Selection)

The paper has been covered by more than 90 News Articles among which Washington Post, CNN, BBC News, Le Monde, El Pais, Huffington Post, Yahoo, Phys.org, Star Tribune, Business Insider, Quartz etc (<https://pnas.altmetric.com/details/4951559/news/page:1>)
CNN [Study: Facebook can actually make us more narrow-minded](#)
New York Times: [How the Internet Is Loosening Our Grip on the Truth](#)
Yahoo Finance: Jeff Bezos: ['The internet ... is a confirmation bias machine'](#)
Business Insider: [How the internet fuels conspiracy theories](#)
Washington Post. [An hour-by-hour look at how a conspiracy theory becomes 'truth' on Facebook](#)
The Guardian: [Echo chambers are dangerous – we must try to break free of our online bubbles](#)

Policy Documents (selection)

National Academies Press (2016): Communicating Science Effectively: A research Agenda
World Economic Forum Global Risk Report (2017)
Institute for Public Policy Research (2020): Prevention in the age of information
Royal Irish Academy (2019): Science in times of challenged trust and expertise
National Bureau of Economic Research (2021): Learning from Shared News
Congressional Research Service (2021) Social Media: Misinformation and Content Moderation

2. Del Vicario, M., Vivaldo, G., Bessi, A., Zollo, F., Scala, A., Caldarelli, G., & Quattrociocchi, W. (2016). **Echo chambers: Emotional contagion and group polarization on facebook**. *Scientific reports*, 6(1), 37825.
Bibliometrics: Citations 278 (Scopus), 580 (Google Scholar), IF 4.25

Relevant Scientific Citations (Selection)

- Liao, H., Mariani, M. S., Medo, M., Zhang, Y. C., & Zhou, M. Y. (2017). Ranking in

evolving complex networks. *Physics Reports*, 689, 1-54.

- Martin, J. A., Myrick, J. G., & Walker, K. K. (2017). How Young, Uninsured Americans Respond to News Coverage of Obamacare: An Experimental Test of an Affective Mediation Model. *Mass Communication and Society*, 20(5), 614-636.

- Wilczek, B. (2018). Media use and life satisfaction: the moderating role of social events. *International Review of Economics*, 65(2), 157-184.

- Shu, K., Bernard, H. R., & Liu, H. (2019). Studying fake news via network analysis: detection and mitigation. In *Emerging Research Challenges and Opportunities in Computational Social Network Analysis and Mining* (pp. 43-65). Springer, Cham.

Media Coverage

La Repubblica: [Ecco l'era della solitudine di massa](#)

MircoMega: [Disinformazione Virale](#)

3. Schmidt, A. L., Zollo, F., Del Vicario, M., Bessi, A., Scala, A., Caldarelli, G., ... & Quattrociocchi, W. (2017). **Anatomy of news consumption on Facebook**. *Proceedings of the National Academy of Sciences*, 114(12), 3035-3039.

Bibliometrics: Citations 157 (Scopus), 345 (Google Scholar), IF 9.5

Relevant Scientific Citations (Selection)

- Grinberg, N., Joseph, K., Friedland, L., Swire-Thompson, B., & Lazer, D. (2019). Fake news on Twitter during the 2016 US presidential election. *Science*, 363(6425), 374-378.

- Bovet, A., & Makse, H. A. (2019). Influence of fake news in Twitter during the 2016 US presidential election. *Nature communications*, 10(1), 7.

- Yin, L., & Deng, Y. (2018). Measuring transferring similarity via local information. *Physica A: Statistical Mechanics and its Applications*, 498, 102-115.

- Hall, M., Mazarakis, A., Chorley, M., & Caton, S. (2018). Editorial of the Special Issue on Following User Pathways: Key Contributions and Future Directions in Cross-Platform Social Media Research.

- Lee, E., Holme, P., & Lee, S. H. (2017). Modeling the dynamics of dissent. *Physica A: Statistical Mechanics and its Applications*, 486, 262-272.

- Nowak, A., & Vallacher, R. R. (2018). Nonlinear societal change: The perspective of dynamical systems. *British Journal of Social Psychology*.

Media Coverage (<https://pnas.altmetric.com/details/17061115/news>)

La Repubblica: [Facebook, un mondo di notizie. Ma noi leggiamo sempre le stesse](#)

Quartz: [Social media is polarizing users faster than ever](#)

El País: [¿Tiene Facebook toda la culpa de la radicalización política? \(spoiler: NO\) |](#)

[Tendencias](#)

Scientific American: [This Thanksgiving Pass the Stuffing--and Don't Pass on the Discussion of Social Issues](#)

4. Del Vicario, M., Zollo, F., Caldarelli, G., Scala, A., & Quattrociocchi, W. (2017). **Mapping social dynamics on Facebook: The Brexit debate**. *Social Networks*, 50, 6-16.

Bibliometrics: Citations 125 (Scopus), 261 (Google Scholar), IF 2.53

Relevant Scientific Citations (Selection)

- Bovet, A., & Makse, H. A. (2019). Influence of fake news in Twitter during the 2016 US presidential election. *Nature communications*, 10(1), 7.

- Spohr, D. (2017). Fake news and ideological polarization: Filter bubbles and selective exposure on social media. *Business Information Review*, 34(3), 150-160.

- Medaglia, R., & Zhu, D. (2017). Public deliberation on government-managed social media: A study on Weibo users in China. *Government Information Quarterly*, 34(3), 533-544.

- Perl, A., Howlett, M., & Ramesh, M. (2018). Policy-making and truthiness: Can existing policy models cope with politicized evidence and willful ignorance in a "post-fact" world?. *Policy Sciences*, 51(4), 581-600.

- Prasetya, H. A., & Murata, T. (2018, December). Modeling the Co-evolving Polarization of Opinion and News Propagation Structure in Social Media. In *International Workshop on Complex Networks and their Applications* (pp. 314-326). Springer, Cham.

Media Coverage

Investigacion y ciencia (Spanish Scientific American): [Dinámica de la posverdad](#)

5. Vicario, M. D., Quattrociocchi, W., Scala, A., & Zollo, F. (2019). **Polarization and fake news: Early warning of potential misinformation targets.** *ACM Transactions on the Web (TWEB)*, 13(2), 1-22.
Bibliometrics: Citations 138 (Scopus), 296 (Google Scholar), IF 1.51

Relevant Scientific Citations (Selection)

- Babcock, M., Cox, R. A. V., & Kumar, S. (2019). Diffusion of pro-and anti-false information tweets: the Black Panther movie case. *Computational and Mathematical Organization Theory*, 25(1), 72-84.
- Mao, Y., Boulouki, S., & Akyol, E. (2018). Spread of information with confirmation bias in cyber-social networks. *IEEE Transactions on Network Science and Engineering*.
- Wang, L., Wang, Y., de Melo, G., & Weikum, G. (2019). Understanding archetypes of fake news via fine-grained classification. *Social Network Analysis and Mining*, 9(1), 37.

Media Coverage

Wired: [Fake news un sistema per prevedere la diffusione della disinformazione](#)

Scienza in Rete: [Ecco come ti prevedo le fake news](#)

6. Cinelli, M., Brugnoli, E., Schmidt, A. L., Zollo, F., Quattrociocchi, W., & Scala, A. (2020). **Selective exposure shapes the Facebook news diet.** *PloS one*, 15(3), e0229129.
Bibliometrics: Citations 33 (Scopus), 85 (Google Scholar), IF 3.24

Relevant Scientific Citations (Selection)

- Lorenz-Spreen, P., Oswald, L., Lewandowsky, S., & Hertwig, R. (2023). A systematic review of worldwide causal and correlational evidence on digital media and democracy. *Nature human behaviour*, 7(1), 74-101.
- Thorson, K., Cotter, K., Medeiros, M., & Pak, C. (2021). Algorithmic inference, political interest, and exposure to news and politics on Facebook. *Information, Communication & Society*, 24(2), 183-200.
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1. Cherifi H, Gaito S., Quattrociocchi W., Sala A., SALA “Complex Networks & Their Applications V”, *Proceedings of the 5th International Workshop on Complex Networks* Springer

BOOK CHAPTERS

- 1 Zollo, F., & Quattrociocchi, W. (2018), Social Dynamics in the Age of Credulity: the misinformation risk and its fallout. In *Digital Dominance. The Power of Google, Amazon, Facebook, and Apple*, Oxford University Press
- 2 Zollo, F., & Quattrociocchi, W. (2018). Misinformation spreading on Facebook. In *Complex Spreading Phenomena in Social Systems* (pp. 177-196). Springer, Cham.
- 3 Scala, A., Caldarelli, G., Chessa, A., Damiano, A., Mureddu, M., Pahwa, S., ... & Quattrociocchi, W. (2014). Power grids, smart grids and complex networks. In *Nonlinear Phenomena in Complex Systems: From Nano to Macro Scale* (pp. 97-110). Springer, Dordrecht.
- 4 Amblard, F., & Quattrociocchi, W. (2013). Social networks and spatial distribution. In *Simulating Social Complexity* (pp. 401-430). Springer Berlin Heidelberg.

6. DISSEMINATION ACTIVITIES

5.1 SCIENTIFIC DISSEMINATION BOOKS

1. Quattrocioni, W., & Vicini, A. (2018). *Liberi di Crederci. Internet, informazione e post-verità*. Codice Edizioni.
2. Quattrocioni, W., & Vicini, A. (2016). *Misinformation.: Guida alla società dell'informazione e della credulità*. Franco Angeli.
3. Quattrocioni, W., & Vicini, A. (2023). *Polarizzazioni: Informazioni, opinioni e altri demoni nell'infosfera*. FrancoAngeli.

5.3 SCIENTIFIC DISSEMINATION PAPERS (selection).

- 04/2022 Le Scienze: Infodemia una nuova sfida per la salute pubblica
- 02/2022 Rainews: Società tra complessità ed entropia informativa
- 04/2021 Le Scienze: “Gli algoritmi e la Polarizzazione”
- 04/2018 Le Scienze: “L’Internet di Babele” (Cover Paper).
- 04/2017 Scientific American: “Inside the Echo Chamber”.
- 01/2017 Global Risk Report World Economic Forum: “Social Media and the Distortion of Information
- 11/2017 Pour La Science: “Désinformation sur les réseaux sociaux : ce que révèlent les statistiques” (Cover Paper).
- 10/2016 Investigacion y Ciencia: “La era de la (des)información”.
- 02/2016 Le Scienze: “L’era della disinformazione” (Cover Paper).
- 01/2016 Agenda: “How does misinformation spread online”. World Economic Forum (Agenda)

5.2 INVITED TALK AND LECTURES (selection)

- 05/2018 Copenhagen, Science and Cocktails: “Science and Post-truth”.
- 06/2017 Pesaro, Post Truth Seminar (Esercito Italiano): “Post-truth under the lens of Science”.
- 10/2017 Milano, TEDx: “Post-Truth Reality As Seen By Science.”
- 05/2017 Montecitorio Roma: “Post-truth under the lens of Science”.
- 04/2017 Roma, Deputy Chamber: “Non è vero ma ci credo”.
- 04/2017 Madrid, European Broadcasting Union Meeting: “Post-truth under the lens of Science”.
- 03/2017 Rome, AgCom: “Post-truth under the lens of Science”.
- 02/2017 Torino, Giovedì Scienza, Teatro Colosseo: “La difficoltà di cambiare idea”
- 01/2016 Roma, Camera dei Deputati: “Non è vero ma ci credo, vita morte e miracoli di una bufala”.
- 11/2016 Firenze, Garr Conference: “Misinformation”.
- 05/2016 Milano, Istituto Mario Negri: “Comunicare la salute al tempo dei social”.
- 05/2016 Milano. Wired Next Fest: “Epidemiology of online misinformation”.
- 04/2016 Perugia, International Journalism Festival: “Collective Narratives and Misinformation”.

7. RESEARCH MEDIA COVERAGE (selection on more than 1000 articles)

(for a complete list click [here](#))

Corriere della Sera – G7 L’italiano che combatte l’esitazione vaccinale

(https://www.corriere.it/esteri/21_giugno_02/g7-l-italiano-che-lotta-contro-l-infodemia-vaccini-combattiamo-fake-news-ma-problema-altro-c107c882-c3b3-11eb-9651-e9e5e7dd2e3d.shtml)

RaiNews – Bilancio social di fine campagna elettorale: le grandi assenti sono state le fake news

Le Scienze, Numero 645, Aprile 2022. Come il Covid ha cambiato il mondo – Infodemia: una nuova sfida per la salute pubblica

Repubblica – Che cosa sta accadendo sui social network in Italia.

RaiNews – Pandemia e sovrabbondanza di informazioni. Che cosa abbiamo imparato dagli anni del covid.

Linkiesta – Il metalinguaggio della Gen Z. Niente rappresenta quest’epoca come i meme (santi numi!)

Nature Italy – I simili si attraggono: come i social media creano le camere d’eco

la Repubblica – Alle radici del complottismo: la regia occulta dei social network

Ansa – Utenti piu’ ‘polarizzati’ su Facebook e Twitter

Phys.org – Different social media platforms foster different levels of segregation in online communities

Corriere della Sera – Mobilita e paradossi del lockdown: Ferme le zone a minor contagio

Nature News Features – The epic battle against coronavirus misinformation and conspiracy theories

Niusdiario – Ciencia y Tecnologia Los misterios de las noticias falsas y por qué es más importante investigarlo ahora

infodata.ilsole24ore (Coronavirus: il lockdown ha penalizzato i Comuni poveri, servono misure fiscali asimmetriche. Lo studio)

nova.ilsole24ore (Uno studio sul limite della clausura e quello che si puo’ fare) □ ANSA.it (Coronavirus: studio, lockdown ha penalizzato Comuni poveri)

Sette - Corriere della sera. Intervista a Walter Quattrococchi.

<http://vittoriozincone.it/2017/03/24/walter-quattrococchi-sette-marzo-2017/>

Ars Technica: The social media "echo-chamber" is real.

<https://arstechnica.com/science/2017/03/the-social-media-echo-chamber-is-real/>

Economist: Bubble trouble: how internet echo chambers disrupt society

<http://shapingthefuture.economist.com/bubble-trouble-internet-echo-chambers-disrupt-society/>

Bloomberg: How Facebook makes us dumber

<https://www.bloomberg.com/view/articles/2016-01-08/how-facebook-makes-us-dumber>

Washington Post: Confirmed: Echo chambers exist on social media. So what do we do about them? https://www.washingtonpost.com/news/in-theory/wp/2016/07/14/confirmed-echo-chambers-exist-on-social-media-but-what-can-we-do-about-them/?utm_term=.af301645181a

New York Times: How the Internet Is Loosening Our Grip on the Truth

https://www.nytimes.com/2016/11/03/technology/how-the-internet-is-loosening-our-grip-on-the-truth.html?_r=0

Washington Post: What was fake on the Internet this week: Why this is the final column

https://www.washingtonpost.com/news/the-intersect/wp/2015/12/18/what-was-fake-on-the-internet-this-week-why-this-is-the-final-column/?utm_term=.c92f4d480f7f

Washington post: Facebook has repeatedly trended fake news since firing its human editors https://www.washingtonpost.com/news/the-intersect/wp/2016/10/12/facebook-has-repeatedly-trended-fake-news-since-firing-its-human-editors/?utm_term=.c7a060803531

Washington post: Here's how scientific misinformation, such as climate doubt, spreads through social media https://www.washingtonpost.com/news/energy-environment/wp/2016/01/04/heres-how-scientific-misinformation-such-as-climate-doubt-spreads-through-social-media/?utm_term=.7baef765fe82

Washington Post: Why your Facebook News Feed is full of conspiracy theories https://www.washingtonpost.com/news/the-intersect/wp/2015/04/23/why-your-facebook-news-feed-is-full-of-conspiracy-theories/?utm_term=.92c01a71e445

Fortune: Here's Why Stamping Out Fake News Is a Lot Harder Than You Think <http://fortune.com/2016/11/17/fake-news-problem/>

The Atlantic: How to Start a Conspiracy Theory on Facebook <https://www.theatlantic.com/technology/archive/2014/03/how-to-start-a-conspiracy-theory-on-facebook/284511/>

La Stampa: Ufo, ET, sbarco sulla Luna: la scienza di costruire bufale (e di smontarle) <http://www.lastampa.it/2017/01/30/scienza/il-cielo/ufo-et-sbarco-sulla-luna-la-scienza-di-costruire-bufale-e-di-smontarle-FUSBOtqP0qwkRDUeiIDHqM/pagina.html>

Le Scienze: La disinformazione corre sui social http://www.lescienze.it/news/2016/01/05/news/diffusione_voci_disinformazione_facebook_social_media-2919669/

Repubblica: Come ti costruisco una bufala sul web https://inchieste.repubblica.it/it/repubblica/rep-it/2015/01/08/news/come_tu_vendo_una_bufala_sul_web-103114905/

Corriere della sera: Così i social hanno condizionato la campagna elettorale http://www.corriere.it/tecnologia/social/16_novembre_10/cosi-social-network-hanno-condizionato-campagna-elettorale-trump-clinton-e500c26c-a710-11e6-8208-49eea13f646a.shtml

Consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445 del 28 dicembre 2000 quanto dichiarato corrisponde a verità ai sensi degli articoli 46 e 47 del D.P.R. 445/2000^[1]