

## CURRICULUM VITAE ET STUDIORUM

### Giancarlo Ruffo

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### (a) Personal Information, Education, and Academic Career

Date and city of birth	Nov. 27th, 1971, Catania
Citizenship	Italian
Permanent Address	Chieri (TO), Italy
2022 – today	Associate Prof. of Computer Science, University of Eastern Piedmont
2020	Full professorship habilitation, Computer Science
2006 – 2022	Associate Prof. of Computer Science, University of Turin
2000 – 2006	Assistant Prof. of Computer Science, University of Turin
2000, Ph.D.	Computer Science, University of Turin
1995, Laurea	Computer Science, University of Catania, 110/110 <i>magna cum laude</i>

### (b) Teaching

From 2000 on, I have taught many courses at all levels ranging from Information Retrieval (2022–today), to Web Technology (2010–today), Programming Paradigms (2022–today), Complex Networks and Data Visualization (2011–2022), Computer and Network Security (2006–2013), Computer Networks (2004–2010), Computer Programming (200–2005), and Computer Science Fundamentals (2000–2007) in Italian universities, and iPhone Application Development (2010/11), at the Bachelor Degree Program in Computer Science, Indiana University, USA. Over the years, I also advised more than 260 students’ (bachelor and master’s degree) theses.

### (c) Research Interest and Scientific Leadership

My fields of study are *data science*, *complex networks*, *network science*, *social media analysis*, *computational social science*. I have participated to large and complex projects both at national and european level, collaborated with many international scholars, and I was committed to industrial research tasks. Currently, I am investigating the following problems: diffusion of misinformation, opinion polarization, hate speech in social media, dynamics of intellectual migration, and visualization and application of signed networks.

In 2011 I have founded “**ARC<sup>2</sup>S**” (Applied Research on Computational Complex Systems) group at the dept. of Computer Science, Univ. of Turin <http://arcs.di.unito.it>. From 2003 on, I advised the early scientific careers of many scholars, such as: Prof. Rossano Schifanella (Assoc. Prof. at the Univ. of Turin), Dr. Marco Milanese (Research Engineer at Université de Cote d’Azur), Dr. André Panisson (Senior Research Leader at CentAI), Dr. Luca Aiello (Assoc. Prof. at University of Copenhagen, Denmark), Dr. Emilio Sulis (Assist. Prof. at Univ. of Turin), Dr. Marcella Tambuscio (post-doc at Austrian Academy of Science, Wien), Dr. Mirko Lai (Assist. Prof. at University of Turin), Dr. Alfonso Semeraro (post-doc at University of Turin), and Dr. Salvatore Vilella (post-doc at University of Turin). I am currently advising the following PhD students: Arthur Capozzi Lupi, Alessandra Urbinati.

#### (d) Awards and Fellowships

2011 – today: **Adjunct Professor**, Luddy School of Informatics, Computing, and Engineering, Indiana University; 2015–2018: **ISI Fellowship**; 2012: **Best Dataset Award** at ICWSM 2012 for paper “People Are Strange When You’re a Stranger: Impact and Influence of Bots on Social Network”; 2009: **ACM Recognition of Service Award**.

#### (e) Selected Publications

##### Riferimenti bibliografici

1. G. Ruffo and A. Semeraro, “Fakenewslab: Experimental study on biases and pitfalls preventing us from distinguishing true from false news,” *Future Internet*, vol. 14, no. 10, 2022.
2. A. Semeraro, S. Vilella, G. Ruffo, and M. Stella, “Emotional profiling and cognitive networks unravel how mainstream and alternative press framed astrazeneca, pfizer and covid-19 vaccination campaigns,” *Scientific Reports*, vol. 12, 08 2022.
3. J. Lenti and G. Ruffo, “Ensemble of opinion dynamics models to understand the role of the undecided about vaccines,” *Journal of Complex Networks*, vol. 10, 06 2022. cnac018.
4. S. Vilella, A. Semeraro, D. Paolotti, and G. Ruffo, “Measuring user engagement with low credibility media sources in a controversial online debate,” *EPJ Data Science*, vol. 11, no. 29, pp. 1–23, 2022.
5. R. Gaeta, M. Garetto, G. Ruffo, and A. Flammini, “Reconciling the quality vs popularity dichotomy in online cultural markets,” *ACM Trans. Inf. Syst.*, apr 2022.
6. A. Semeraro, S. Vilella, and G. Ruffo, “Pyplutchik: Visualising and comparing emotion-annotated corpora,” *PLOS ONE*, vol. 16, pp. 1–24, 09 2021.
7. S. Vilella, D. Paolotti, G. Ruffo, and L. Ferres, “News and the city: understanding online press consumption patterns through mobile data,” *EPJ Data Science*, vol. 9, no. 1, 2020.
8. S. Vilella, M. Lai, D. Paolotti, and G. Ruffo, “Immigration as a divisive topic: Clusters and content diffusion in the italian twitter debate,” *Future Internet*, 2020.
9. M. Lai, V. Patti, G. Ruffo, and P. Rosso, “#brexit: Leave or remain? the role of user’s community and diachronic evolution on stance detection,” *Journal of Intelligent and Fuzzy Systems*, vol. 39, no. 2, pp. 2341–2352, 2020.
10. E. Galimberti, C. Madeddu, F. Bonchi, and G. Ruffo, “Visualizing structural balance in signed networks,” in *Complex Networks and Their Applications VIII*.
11. F. Bonchi, E. Galimberti, A. Gionis, B. Ordozgoiti, and G. Ruffo, “Discovering polarized communities in signed networks,” in *Proceedings of the 28th ACM International Conference on Information and Knowledge Management, CIKM ’19*, (New York, NY, USA), p. 961–970, ACM, 2019.
12. M. Lai, M. Tambuscio, V. Patti, G. Ruffo, and P. Rosso, “Stance polarity in political debates: A diachronic perspective of network homophily and conversations on twitter,” *Data and Knowledge Engineering*, vol. 124, 2019.
13. M. Tambuscio, D. Oliveira, G. Ciampaglia, and G. Ruffo, “Network segregation in a model of misinformation and fact-checking,” *Journal of Computational Social Science*, vol. 1, p. 261–275, 2018.
14. M. Tambuscio, G. Ruffo, A. Flammini, and F. Menczer, “Fact-checking effect on viral hoaxes: A model of misinformation spread in social networks,” in *WWW 2015 Companion* -

- Proceedings of the 24th International Conference on World Wide Web*, pp. 977–982, 2015.
15. L. Allisio, V. Mussa, C. Bosco, V. Patti, and G. Ruffo, “Felicittà: Visualizing and estimating happiness in italian cities from geotagged tweets,” in *CEUR Workshop Proceedings*, vol. 1096, pp. 95–106, 2013.
  16. L. Aiello and G. Ruffo, “Lotusnet: Tunable privacy for distributed online social network services,” *Computer Communications*, vol. 35, no. 1, pp. 75–88, 2012.
  17. A. Panisson, A. Barrat, C. Cattuto, W. Van Den Broeck, G. Ruffo, and R. Schifanella, “On the dynamics of human proximity for data diffusion in ad-hoc networks,” *Ad Hoc Networks*, vol. 10, no. 8, pp. 1532–1543, 2012.
  18. L. Aiello, M. Deplano, R. Schifanella, and G. Ruffo, “People are strange when you’re a stranger: Impact and influence of bots on social networks,” in *Proceedings of the 6th International AAAI Conference on Weblogs and Social Media (ICWSM 2012)*, pp. 10–17, 2012.
  19. L. Aiello, A. Barrat, C. Cattuto, G. Ruffo, and R. Schifanella, “Link creation and profile alignment in the anobii social network,” in *Proceedings - SocialCom 2010: 2nd IEEE International Conference on Social Computing, PASSAT 2010: 2nd IEEE International Conference on Privacy, Security, Risk and Trust*, pp. 249–256, 2010.
  20. G. Ruffo and R. Schifanella, “A peer-to-peer recommender system based on spontaneous affinities,” *ACM Transactions on Internet Technology*, vol. 9, no. 1, 2009.
  21. L. Shiguo, D. Kanellopoulos, and G. Ruffo, “Recent advances in multimedia information system security,” *Informatica (Ljubljana)*, vol. 33, no. 1, pp. 3–24, 2009.
  22. R. Schifanella, A. Panisson, C. Gena, and G. Ruffo, “Mobhinter: Epidemic collaborative filtering and self-organization in mobile ad-hoc networks,” in *Proceedings of the 2008 ACM Conference on Recommender Systems (RecSys’08)*, pp. 27–34, 2008.
  23. L. Aiello, M. Milanese, G. Ruffo, and R. Schifanella, “Tempering kademia with a robust identity based system,” in *Proceedings of the 8th International Conference on Peer-to-Peer Computing (P2P’08)*, pp. 30–39, 2008.
  24. D. Gunetti, C. Picardi, and G. Ruffo, “Keystroke analysis of different languages: A case study,” *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, vol. 3646 LNCS, pp. 133–144, 2005.
  25. G. Ruffo, R. Schifanella, M. Sereno, and R. Politi, “Walty: A tool for evaluating web application performance,” in *Proceedings of the 1st International Conference on the Quantitative Evaluation of Systems, QEST 2004*, pp. 332–333, 2004.
  26. B. Crispo and G. Ruffo, “Reasoning about accountability within delegation,” *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, vol. 2229, pp. 251–260, 2001.
  27. F. Bergadano, B. Crispo, and G. Ruffo, “High dictionary compression for proactive password checking,” *ACM Trans. Inf. Syst. Secur.*, vol. 1, p. 3–25, Nov. 1998.

#### **(f) GDPR statement**

I authorize the processing of personal data contained in my curriculum vitae based on art. 13 GDPR 679/16. I authorize the processing of my personal data pursuant to Legislative Decree 101/2018 and art. 13 GDPR (EU Regulation 2016/679) for the purposes of personnel research, selection, and project evaluation.