Rossetti, Giulio

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Education and key qualifications

2015	PhD, Computer Science department, University of Pisa, Italy Supervisors: Fosca Giannotti, Dino Pedreschi
2011	Master of Science, Computer Science dept., University of Pisa, Italy

Current position(s)

2023 –	Senior Researcher (permanent position), CNR-ISTI, Italy
2023 –	Board Member of the "AI for Society" Italian National PhD (Multidisciplinary program with a strong focus on Governance and Societal Impact of AI)
2019 –	External Professor, Computer Science dept., University of Pisa, Italy
2018 –	Head of the KDD Complex Network research team, CNR-ISTI, Italy (Leading interdisciplinary research on Social Dynamics and Complex Systems)
2011 –	Research Associate, KDD Laboratory, CNR-ISTI, Italy

Previous position(s)

2026	Visiting Scholar at UFMG, Belo Horizonte, Brazil
2019 – 2022	Researcher (permanent position), CNR-ISTI, Italy
2018	Assistant Professor, Computer Science dept., University of Pisa, Italy
2017 – 2018	Post Doc researcher, CNR-ISTI, Italy
2015 – 2017	Post Doc researcher, Computer Science dept., University of Pisa, Italy
2012 – 2015	PhD student, Computer Science dept., University of Pisa, Italy
2013	Research Associate, STACC, Estonia
2013	Visiting scholar at the PUC-Rio, Brazil
2011	Temporary Research Associate, CNR-ISTI, Italy

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Giulio Rossetti has published ~100 peer-reviewed scientific papers, including >50 in leading journals (mostly ranked Q1 in Scimago for CS/NetSci/Physics/Cognitive Sciences) and a further >40 in leading conferences (mainly in top-tier venues, e.g., SIGKDD, ICDM, ICDE). His current h-index (according to Google Scholar) is 31, his i10-index is 71, and he has more than 4,200 citations.

Research achievements (selected research outputs)

[1] *Cau, E., Pansanella, V., Pedreschi, D. and Rossetti, G., 2025. Selective agreement, not sycophancy: investigating opinion dynamics in LLM interactions. EPJ Data Science, 14(1), p.59.*
PI Role: Senior Author. Core validation of LLM agents' behavioral fidelity, directly addressing the "behavioral validation" gap in SDTs.

[2] *Morini, V., Sansoni, M., Rossetti, G., Pedreschi, D. and Castillo, C., 2025. Participant behavior and community response in online mental health communities: Insights from Reddit. Computers in Human Behavior, 165, p.108544.*

[3] *Morini, V., Citraro, S., Sajno, E., Sansoni, M., Riva, G., Stella, M., and Rossetti, G., 2025. Online posting effects: Unveiling the non-linear journeys of users in depression communities on Reddit. Computers in Human Behavior Reports, 17, p.100542.*
PI Role [b-c]: Senior Author. Analysis of platform dynamics and user well-being, crucial for the Hybrid Policy Evaluation case study.

[4] *Rossetti, G., Stella, M., Cazabet, et al. 2026. YSocial: an AI-powered Social Media Virtual Twin. Big Data & Society.*
PI Role: First, Corresponding and Senior Author. Foundational work, establishing the feasibility and outlining the inherent limits (validity crisis) of current AI-powered SDT prototypes. Project available at http://y-not.social. Provides support for high-risk/high-gain project ambition and proposal feasibility.

[5] *Failla, A. and Rossetti, G., 2024. "I'm in the Bluesky Tonight": Insights from a year's worth of social data. PloS one, 19(11), p.e0310330.*
PI Role: Senior Author. Support the ability to collect large-scale social media data and make it usable for research, enforcing GDPR and relevant EU/national legislation. Fundamental for the SDT development and fine-tuning on real-world data.

[6] *Abramski, K., Citraro, S., Lombardi, L., Rossetti, G., and Stella, M., 2023. Cognitive network science reveals bias in GPT-3, GPT-3.5 Turbo, and GPT-4 mirroring math anxiety in high-school students. Big Data and Cognitive Computing, 7(3), p.124.*
PI Role: Senior Author. Methodological fusion of Cognitive Science and AI.

[7] *Pansanella, V., Sîrbu, A., Kertesz, J. and Rossetti, G., 2023. Mass media impact on opinion evolution in biased digital environments: a bounded confidence model. Scientific Reports, 13(1), p.14600.*
PI Role: Senior Author. Modeling complex social opinion dynamics and the impact of algorithmic curation.

[8] *Pansanella, V., Rossetti, G. and Milli, L., 2022. Modeling algorithmic bias: simplicial complexes and evolving network topologies. Applied Network Science, 7(1), p.57*
PI Role: Senior Author. Foundational Network Science works on algorithmic bias.

[9] *De Duro, E.S., Taietta, E., D'Alfonso, S., Bentenuto, A., Rossetti, G. and Stella, M., 2027. PhDGPT: Measuring bias in academic mental health across quantised and uncensored LLMs. Information Processing & Management, 64(2), p.105173.*
PI Role: Senior Author. experimental protocol, LLM agents integration pipeline.

[10] *Haim, E., Fischer, N., Citraro, S., Rossetti, G. and Stella, M., 2026. Forma mentis networks predict creativity ratings of short texts via interpretable artificial intelligence in human and AI-simulated raters. Journal of Computational Social Science, 9(1), p.22.*
PI Role: Senior Author. LLM agents integration pipeline and data generation protocol design.

Peer recognition

Awards

2021 - 2026	Stanford/Elsevier's Top 2% Scientist Rankings
2025	Best paper award, Big Data and Cognitive Computing journal
2024	**Sage Concept grants for the project "YSocial Digital Twin"** (http://y-not.social)
2024	Best Paper Award. ASONAM
2024	Best paper & poster awards. Int. conf. on Complex Networks and their Applications
2020	Open Science Award, CNR-ISTI
2020	Best presentation.Conference on Complex Networks and their Applications
2019	Best poster. Conference on Complex Networks and their Applications

2017 Best paper. European Conference on Parallel and Distributed Computing
2017 Best poster. Digital Infrastructures for Research, Brussels
2017 Finalist ERCIM "Cor Baayen Young Researcher Award" (only Italian shortlisted)
2012/19 Awarded five times with the "Matteo Dellepiane" Young Researcher Award (in 2012, 2014, 2017, 2018, 2019) for the yearly publication track record quality, ISTI-CNR

ERC Submission Experiences
2025 SH3/4 & PE6 Synergy Grant submission
2023 & 2024 PE6 Consolidator Grants submissions
(2023 interview stage, demonstrating Step 1 success in a highly competitive domain)
2021 & 2022 PE6 Starting grants submissions
(both reached the interview stage, proving consistent excellence and potential)

Qualifications:
2020 Italian national scientific qualification (ASN) to associate professorships for i) Computer Science and ii) Information Processing Systems

Invited presentations/lectures related to the proposal:
2026 UFMG, "Simulated Societies in the era of AI"
2025 Italian Government Presidency of the Council of Ministers, ICT4Intel, **"Visibility paradox in social media"**
2025 The threads of Complex Networks PhD school, **"From ABMs to Social Digital Twins"**
2025 SoBigData PhD summer school, **"Simulating Societies"**
2024 Dept. of Psychology and Cognitive Sciences, University of Trento, **"Simulating Societies"**
2024 Italian Government Presidency of the Council of Ministers, ICT4Intel, **"Simulating Societies"**
2023 Dept. of Psychology and Cognitive Sciences of the University of Trento (IT), "Advanced techniques for data analysis in psychology"
2018 Dept. of Digital Humanities of King's College (UK), "Opinion Dynamics and Algorithmic Bias."

ADDITIONAL INFORMATION

Giulio Rossetti started his PhD in 2012 in the KDD Laboratory of the University of Pisa/CNR-ISTI. At the time, the group's main research focused on human mobility. There, he proposed a project on dynamic networks to support a novel research line of interest to the laboratory at the time: social network analysis. After his PhD, Giulio decided to push to revitalize this research line within the group, and in a relatively short time (2015-2018), he was able to recreate a multidisciplinary research unit within the lab dedicated to complex network modeling and analysis. Since 2017, he has acted as Research Coordinator of the KDD Lab Complex Network research unit.

Since 2020, Rossetti has collaborated with the Psychology and Cognitive Science dept. of the University of Trento (prof. Massimo Stella and Luigi Lombardi) and with the Psychology dept. of the University of the Sacred Heart (prof. Giuseppe Riva) to study human-machine interaction and LLM biases and cognition. Such a collaboration generated a stable stream of multidisciplinary publications and the active supervisorship of four PhD students (1 in AI for Society at the University of Pisa, 2 in Psychology at the University of Trento, 1 in AI for Society at the University of the Sacred Heart).

Other contributions to the research community

Giulio Rossetti has been involved in several national and international research projects as part of the ISTI-CNR and/or the University of Pisa. Among them (ordered by role):

Principal Investigator/Co-PI/Research Unit Coordinator:

- **Understanding the business value of SMEs' patent portfolio:** an artificial intelligence-based approach: 2020-2021, European Patent Office research program. Co-Principal Investigator.
- **Research Liaison CNR-Sant'Anna:** Resource allocation for the Tuscany Region health department. 2019-2020. Principal Investigator.
- **HumMingBird** - Enhanced migration measures from a multidimensional perspective: 2019-2023, H2020, grant agreement #870661. CNR unit Coordinator.
- **Research Liaison CNR-Italian Prime Minister's Office**: Dynamic network modeling and analysis. 2024 - 2025. Principal Investigator. (Directly influencing national digital governance policy)

Work Package/Task Leader:

- **SoBigData.it**: 2022-2025, Italian NRRP, Research Infrastructure project. Work package leader **(Infrastructure Services),** CNR unit participant (Experience in developing large-scale research infrastructure.)
- **SoBigData-PlusPlus**: 2020-2023, H2020, Grant agreement #654024. Work package leader, Task leader, CNR unit participant.
- **SoBigData** - Social Mining and Big Data Ecosystem: 2015-2019, H2020, grant agreement #654024. Task leader, CNR/UNIPI unit participant.
- **Future Artificial Intelligence Research (FAIR)**: 2022-2025, Italian NRRP. Task leader, CNR/UNIPI unit participant.

Research Unit Participant and other roles:

- **City-AI Co-Evolution:** 2026-2030, FIS (Italian ERC program), unit participant
- **SoBigData-PPP**: 2022-2025, H2020 INFRAIA roadmap.
- **SAI** - Social Explainable Artificial Intelligence. 2021-2023, Chist-Era.
- **HumanE AI Network**: 2020-2023 H2020, Grant agreement #952026
- **XAI:** 2019-2025, ERC AdG, GS #834756 grantee laboratory member.
- **Track&Know**: 2018-2020, H2020, grant agreement #780754. Role: IPR Handler
- **Cimplex**: 2015-2018, H2020, grant agreement #641191.
- **DataSim**: 2011-2014, FP7-ICT FET Open.
- **SEEK**: 2012-2015, Marie Curie, PEOPLE (IRSES 2011).
- **ICON**:2012-2014, FP7-ICT-2011-C FET-Open, grant agreement #284715.
- **LIFT**: 2010-2013, P7-ICT FET Open.

Since 2020, Giulio Rossetti has led the Work Package "Social Mining and Big Data Resources Integration" of the SoBigData-PlusPlus H2020 research project, which aims to develop and integrate methods and data from different domains within the project's Research Infrastructure. Since 2022, Giulio Rossetti has led the Work Package "Infrastructure Services" of the SoBigData-PNRR Italian national project aimed at expanding and empowering the Italian node of the research infrastructure developed in SoBigData-PlusPlus.

Giulio Rossetti - apart from his reviewing activities for several academic journals and conferences - has been involved, at multiple levels, in the organization of international conferences and workshops:

2025 & 2026	Chair of the Satellite "Simulated Societies", CCS (2025), ASONAM (2026)
2024 & 2025	Chair of the International Workshop "Social Media Sway", ASONAM
2024 & 2025	Chair of the International Workshop "Hypernetwork Science", ASONAM
2025	General Workshop Chair for Hybrid Human Artificial Intelligence, HHAI conference, Italy
2023	Chair of the 1st International Workshop on "Minds meet Media", ICDM
2020	General Workshop Chair, International Conference on Social Informatics (SocInfo), Italy
2018	Chair of the 1st international workshop on Online Social Networks and Media: Network Properties and Dynamics, within the The Web Conference, Lione, France
2017 & 2019	Program Co-Chair of Goodtechs International conference, Italy

2015-18 Chair of 4 editions of the international workshop on Dynamics in Networks, co-hosted at ASONAM/ECML-PKDD

Giulio Rossetti acted as editor for several special issues in the field of Network Science and as external evaluator for grant agencies and PhD committees. Among them:

2025-26 External reviewer for Huo Family Foundation grants, UK
2025 PhD Viva External examiner, University of Milan, Italy
2025 PhD Viva External examiner, IIT Delhi, India
2025 PhD Viva External examiner, École Normale Supérieure, Algiers
2024 Academic Editor, Plos Complex Systems
2023 Review Editor Frontiers in Big Data
2023 External reviewer for NWO, Dutch Research Council
2023 PhD Viva External examiner, University of Tartu, Estonia
2022-26 ERC Panel Expertise: External reviewer for ERC-STG PE6
(Demonstrating intimate knowledge of ERC evaluation standards)
2021 PhD Viva External examiner, University of Edinburgh, School of Informatics, UK
2021 PhD Viva External examiner, Universidade Federal de Minas Gerais, BR
2020 External reviewer for Mega-Grants, Russia
2018-25 Guest Editor for several SI on Human-Centric AI, Network and Opinion modeling (Future Internet, Big Data & Cog. Computing, App. Sciences, App. Network Sciences, OSNEM)