

Michael Soprano, PhD

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Education

- Nov. 2019 – Jan. 2023 **PhD in Computer Science and Mathematical and Physical Sciences**, Cum Laude. 35th cycle, University of Udine, Italy.
- Mar. 2015 – Mar. 2018 **Master's Degree in Computer Science**. 109/110, University of Udine, Italy.
- Oct. 2011 – Mar. 2015 **Bachelor's Degree in Web Technologies and Multimedia**. 101/110, University of Udine, Italy.
- Sep. 2006 – Jun. 2011 **Technical High School Diploma in Computer Science**. 77/100, I.S.I.S. R. D'Aronco, Gemona del Friuli, Italy.

Work Experience

- Jun. 2025 – Present **Postdoctoral Researcher**. Department of Mathematics, Computer Science and Physics (DMIF), University of Udine, Italy.
Research contract pursuant to Article 22 of Law 240/2010, under the University regulation approved on April 30, 2025. Research on information and disinformation, with a focus on the automatic evaluation of information truthfulness, experimentation with detection models, and the definition of evaluation metrics.
- Mar. 2025 – May 2025 **Self-employed Worker**. Department of Economic and Statistical Sciences (DIES), University of Udine, Italy.
Design, implementation, and evaluation of a conversational system for accessing regional public healthcare services, including prototype development, experimental evaluation, and data analysis within the interdepartmental project "Governance and Digital Public Administration".
- Dec. 2023 – May 2025 **Postdoctoral Researcher**. Department of Mathematics, Computer Science and Physics (DMIF), University of Udine, Italy.
Research activity within the PRIN 2022 project "The Measure of Truth: An Evaluation-Centered Machine-Human Hybrid Framework for Assessing Information Truthfulness" (Code 20227F2ZN3, CUP G53D23002800006), funded by the European Union, NextGenerationEU, PNRR M4 C2 I1.1. Definition of an evaluation framework for misinformation detection systems, including the creation of labelled datasets, bias prevention, and truthfulness-oriented evaluation metrics.
- Mar. 2023 – Nov. 2023 **Postdoctoral Researcher**. Department of Economic and Statistical Sciences (DIES), University of Udine, Italy.
Research on e-government applications based on conversational agents for the Italian public administration, with particular emphasis on the healthcare domain.
- Jan. 2022 – Mar. 2022 **Self-employed Worker**. Polytechnic Department of Engineering and Architecture (DPIA), University of Udine, Italy.
Development of a web application supporting the comparability and reproducibility of research results in combinatorial optimization.
- Jun. 2018 – Oct. 2019 **Research Fellow**. Department of Mathematics, Computer Science and Physics (DMIF), University of Udine, Italy.
Research project co-funded by SISSA Medialab on the design, implementation,

and evaluation of an ecosystem providing an alternative to traditional peer review in scholarly publishing.

- Jun. 2017 – Oct. 2019 **Self-employed Worker.** Datamantix S.r.l., Udine, Italy.
Design, development, and maintenance of several web applications and a chatbot as a full-stack developer.
- Aug. 2017 – Feb. 2018 **Self-employed Worker.** Archeido S.r.l., Udine, Italy.
Development, as a full-stack developer, of a web application for the management and visualization of financial assets.
- Nov. 2015 – Feb. 2016 **Self-employed Worker.** Troublezine.
Design, development, and maintenance of a blog on music news and events as a full-stack web developer.

Visits

- Mar. 2022 – Jul. 2022 **Visiting Student**, Centrum Wiskunde & Informatica (CWI), Human-Centered Data Analytics Group, Amsterdam, the Netherlands. Research visit carried out during the PhD programme.

Talks

- Mar. 2026 **Analyzing AI Evaluation Benchmarks Through Information Retrieval and Network Science.** *The 48th European Conference on Information Retrieval*, March 30, 2026. Delft, The Netherlands.
<https://michaelsoprano.com/media/posters/Analyzing-AI-Eval-Benchmarks-Through-IR-ECIR-2026.pdf>
- Mar. 2026 **Large Language Models as Assessors: On the Impact of Relevance Scales.** *The 48th European Conference on Information Retrieval*, March 30, 2026. Delft, The Netherlands.
https://michaelsoprano.com/media/posters/LLMs-As-Assessors_ECIR-2026.pdf
- Jul. 2025 **AIDME: A Scalable, Interpretable Framework for AI-Aided Scoping Reviews.** *The 15th International Conference on Innovative Concepts and Theories in Information Retrieval*, July 18, 2025. Padua, Italy.
https://michaelsoprano.com/media/posters/AIDME-Framework_ICTIR-2025.pdf
- Jul. 2025 **The Magnitude of Truth: On Using Magnitude Estimation for Truthfulness Assessment.** *The 48th International ACM SIGIR Conference on Research and Development in Information Retrieval*, July 16, 2025. Padua, Italy.
https://michaelsoprano.com/media/talks/SIGIR-2025_The-Magnitude-of-Truth-On-Using-Magnitude-Estimation-for-Truthfulness-Assessment.pdf
- Jun. 2025 **AIDME: A Scalable, Interpretable Framework for AI-Aided Scoping Reviews.** *Workshop “AI, Misinformation and Disinformation” – Ital-IA 2025*, June 23, 2025. Trieste, Italy.
https://michaelsoprano.com/media/talks/Ital-IA-2025_AIDME-Framework.pdf
- Feb. 2025 **Evaluation of Crowdsourced Peer Review using Synthetic Data and Simulations.** *21st Conference on Information and Research Science Connecting to Digital and Library Science (IRCDL 2025)*, February 20, 2025. Udine, Italy.
https://michaelsoprano.com/media/talks/IRCDL-2025_Evaluation-of-Crowdsourced-Peer-Review-using-Synthetic-Data-and-Simulations.pdf
- Sep. 2024 **Deploying Complex Crowdsourcing Tasks Without Fear: An Introduction to Crowd_Frame.** *The 3rd Italian Conference on Big Data and Data Science (ITADATA 2024)*, September 17, 2024. Pisa, Italy.
https://michaelsoprano.com/media/talks/ITADATA-2024_An-Introduction-To-Crowd_Frame.pdf
- Oct. 2023 **Towards a Conversational-Based Agent for Healthcare.** *CARE: Conversational Agents and Responsible Ethics in Healthcare, workshop at the European Federation of Medical Informatics Special Topic Conference 2023*, October 27, 2023. Turin, Italy.
https://michaelsoprano.com/media/talks/EFMI-STC-2023_Towards-a-Conversational-Based-Agent-for-Healthcare.pdf

- May 2023 **Towards a Conversational-Based Agent for Health Services.** *Third National CINI Conference on Artificial Intelligence*, May 29, 2023. Pisa, Italy.
https://michaelsoprano.com/media/posters/Ital-IA-2023_Towards-a-Conversational-Based-Agent-for-Health-Services.pdf
- Feb. 2022 **Crowd_Frame: A Simple and Complete Framework to Deploy Complex Crowdsourcing Tasks Off-the-Shelf.** *The 15th ACM International Conference on Web Search and Data Mining*, February 15, 2022. Phoenix, USA (remote).
 Remote presentation due to the COVID-19 pandemic.
https://michaelsoprano.com/talks/WSDM-2022_Crowd_Frame-A-Simple-and-Complete-Framework-to-Deploy-Complex-Crowdsourcing-Tasks-Off-the-shelf.pdf
- Oct. 2020 **The COVID-19 Infodemic: Can the Crowd Judge Recent Misinformation Objectively?** *29th ACM International Conference on Information and Knowledge Management*, October 19, 2020. Galway, Ireland (remote).
 Remote presentation due to the COVID-19 pandemic.
https://michaelsoprano.com/media/talks/CIKM-2020_The-COVID-19-Infodemic.pdf
- Jul. 2020 **Can the Crowd Identify Misinformation Objectively? The Effects of Judgment Scale and Assessor's Background.** *43rd International ACM SIGIR Conference on Research and Development in Information Retrieval*, July 25, 2020. Xi'an, China (remote).
 Remote presentation due to the COVID-19 pandemic.
https://michaelsoprano.com/media/talks/SIGIR-2020_Can-The-Crowd-Identify-Misinformation-Objectively.pdf
- Sep. 2019 **Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Model.** *Italian Information Retrieval Workshop*, September 16, 2019. Padua, Italy.
https://michaelsoprano.com/talks/IIR-2019_Bias-and-Fairness-in-Effectiveness-Evaluation-by-Means-of-Network-Analysis-and-Mixture-Model.pdf

Publications

Journal Articles

- 1 Francesca Da Ros, **Michael Soprano**, Luca Di Gaspero e Kevin Roitero. "Large Language Models for Combinatorial Optimization: A Systematic Review". In: *ACM Computing Surveys* (mar. 2026). Journal Ranks: Journal Citation Reports (JCR) Q1 (2024), Scimago (SJR) Q1 (2024). ISSN: 0360-0300. DOI: 10.1145/3801961.
- 2 David La Barbera, Eddy Maddalena, **Michael Soprano**, Kevin Roitero, Gianluca Demartini, Davide Ceolin, Damiano Spina e Stefano Mizzaro. "Crowdsourced Fact-checking: Does It Actually Work?" In: *Information Processing & Management* 61.5 (lug. 2024). Journal Ranks: Journal Citation Reports (JCR) Q1 (2023), Scimago (SJR) Q1 (2023), p. 103792. ISSN: 0306-4573. DOI: 10.1016/j.ipm.2024.103792.
- 3 Eddy Maddalena, Stefano Mizzaro, Kevin Roitero, Marco Viviani, David La Barbera, Sandip Modha, Gabriella Pasi, Francesca Da Ros e **Michael Soprano**. "Report on the 14th Italian Information Retrieval Workshop (IIR 2024)". In: *SIGIR Forum* 58.2 (dic. 2024), pp. 1–13. ISSN: 0163-5840. DOI: 10.1145/3722449.3722464.
- 4 **Michael Soprano**, Kevin Roitero, Ujwal Gadiraju, Eddy Maddalena e Gianluca Demartini. "Longitudinal Loyalty: Understanding The Barriers To Running Longitudinal Studies On Crowdsourcing Platforms". In: *ACM Transactions on Social Computing* 7.1–4 (set. 2024). Journal Rank: Scimago (SJR) Q2 (2023). DOI: 10.1145/3674884.
- 5 **Michael Soprano**, Kevin Roitero, David La Barbera, Davide Ceolin, Damiano Spina, Gianluca Demartini e Stefano Mizzaro. "Cognitive Biases in Fact-Checking and Their Countermeasures: A Review". In: *Information Processing & Management* 61.3 (2024). Journal Ranks: Journal Citation Reports (JCR) Q1 (2022), Scimago (SJR) Q1 (2022), p. 103672. ISSN: 0306-4573. DOI: 10.1016/j.ipm.2024.103672.
- 6 Damiano Spina, Kevin Roitero, Stefano Mizzaro, Vincenzo Della Mea, Francesca Da Ros, **Michael Soprano**, Hafsa Akebli, Alex Falcon, Mehdi Fasihi, Alessio Fiorin, David La Barbera, Daniele Lizzio Bosco, Riccardo Lunardi, Alberto Marturano, Zaka-Ud-Din Muhammad, Francesco Nascimben, Moritz Nottebaum, Massimiliano Pascoli, Mihai Horia Popescu, Laura Rasotto, Mubashara Rehman, Francesco Taverna, Biagio Tomasetig e Alessandro Tremamunno. "Report on the Hands-On PhD Course on Responsible AI from the Lens of an Information Access Researcher". In: *SIGIR Forum* 58.2 (dic. 2024), pp. 1–61. ISSN: 0163-5840. DOI: 10.1145/3722449.3722456.

- 7 Kevin Roitero, David La Barbera, **Michael Soprano**, Gianluca Demartini, Stefano Mizzaro e Tetsuya Sakai. "How Many Crowd Workers Do I Need? On Statistical Power When Crowdsourcing Relevance Judgments". In: *ACM Transactions on Information Systems* (mag. 2023). Journal Ranks: Journal Citation Reports (JCR) Q1 (2021), Scimago (SJR) Q1 (2021). ISSN: 1046-8188. DOI: 10.1145/3597201.
- 8 Erik Brand, Kevin Roitero, **Michael Soprano**, Afshin Rahimi e Gianluca Demartini. "A Neural Model to Jointly Predict and Explain Truthfulness of Statements". In: *Journal of Data and Information Quality* 15.1 (dic. 2022). Journal Ranks: Journal Citation Reports (JCR) Q3 (2021), Scimago (SJR) Q2 (2021). ISSN: 1936-1955. DOI: 10.1145/3546917.
- 9 Davide Ceolin, Giuseppe Primiero, **Michael Soprano** e Jan Wielemaker. "Transparent Assessment of Information Quality of Online Reviews Using Formal Argumentation theory". In: *Information Systems* 110 (lug. 2022). Journal Ranks: Journal Citation Reports (JCR) Q2 (2021), Scimago (SJR) Q1 (2021), p. 102107. ISSN: 0306-4379. DOI: 10.1016/j.is.2022.102107.
- 10 Kevin Roitero, **Michael Soprano**, Beatrice Portelli, Massimiliano De Luise, Damiano Spina, Vincenzo Della Mea, Giuseppe Serra, Stefano Mizzaro e Gianluca Demartini. "Can The Crowd Judge Truthfulness? A Longitudinal Study On Recent Misinformation About COVID-19". In: *Personal and Ubiquitous Computing* 27.1 (feb. 2021). Journal Ranks: Journal Citation Reports (JCR) Q2 (2020), Scimago (SJR) Q1 (2021), pp. 59-89. ISSN: 1617-4917. DOI: 10.1007/s00779-021-01604-6.
- 11 **Michael Soprano**, Kevin Roitero, David La Barbera, Davide Ceolin, Damiano Spina, Stefano Mizzaro e Gianluca Demartini. "The Many Dimensions of Truthfulness: Crowdsourcing Misinformation Assessments on a Multidimensional Scale". In: *Information Processing & Management* 58.6 (nov. 2021). Journal Ranks: Journal Citation Reports (JCR) Q1 (2021), Scimago (SJR) Q1 (2021), p. 102710. ISSN: 0306-4573. DOI: 10.1016/j.ipm.2021.102710.
- 12 Kevin Roitero, **Michael Soprano**, Andrea Brunello e Stefano Mizzaro. "Reproduce and Improve: An Evolutionary Approach to Select a Few Good Topics for Information Retrieval Evaluation". In: *Journal of Data and Information Quality* 10.3 (set. 2018). Journal Rank: Scimago (SJR) Q2 (2018). ISSN: 1936-1955. DOI: 10.1145/3239573.

Conference Papers

- 13 Gaia Simeoni, **Michael Soprano**, Riccardo Lunardi, Kevin Roitero e Stefano Mizzaro. "Analyzing AI Evaluation Benchmarks Through Information Retrieval and Network Science". In: *Advances in Information Retrieval: 48th European Conference on Information Retrieval (ECIR 2026)*. A cura di Ricardo Campos, Adam Jatowt, Yanyan Lan, Mohammad Aliannejadi, Christine Bauer, Sean MacAvaney, Avishek Anand, Zhaochun Ren, Suzan Verberne, Nan Bai e Masoud Mansoury. Vol. 16484. Lecture Notes in Computer Science. Cham: Springer Nature Switzerland, 2026, pp. 349-359. ISBN: 978-3-032-21300-6. DOI: 10.1007/978-3-032-21300-6_25.
- 14 Riccardo Zamolo, Riccardo Lunardi, **Michael Soprano**, Gianluca Demartini, Stefano Mizzaro e Kevin Roitero. "Large Language Models as Assessors: On the Impact of Relevance Scales". In: *Advances in Information Retrieval: 48th European Conference on Information Retrieval (ECIR 2026)*. A cura di Ricardo Campos, Adam Jatowt, Yanyan Lan, Mohammad Aliannejadi, Christine Bauer, Sean MacAvaney, Avishek Anand, Zhaochun Ren, Suzan Verberne, Nan Bai e Masoud Mansoury. Vol. 16484. Lecture Notes in Computer Science. Cham: Springer Nature Switzerland, 2026, pp. 338-348. ISBN: 978-3-032-21300-6. DOI: 10.1007/978-3-032-21300-6_24.
- 15 Francesca Da Ros, Luca Di Gaspero, Marie-Louise Lackner, Nysret Musliu e **Michael Soprano**. "Search Trajectory Networks Applied to a Real-World Parallel Batch Scheduling Problem". In: *Applications of Evolutionary Computation (EvoApplications 2025)*. Vol. 15612. Lecture Notes in Computer Science. Conference Ranks: GGS B. Cham: Springer Nature Switzerland, apr. 2025, pp. 68-85. ISBN: 978-3-031-90062-4. DOI: 10.1007/978-3-031-90062-4_5.
- 16 Riccardo Lunardi, Kevin Roitero, **Michael Soprano**, Paolo Coppola, Vincenzo Della Mea e Stefano Mizzaro. "Agent-Based Healthcare Chatbots for Regional System Services: A Case Study in the Friuli-Venezia Giulia Region". In: *Intelligent Health Systems – From Technology to Data and Knowledge*. Vol. 327. Studies in Health Technology and Informatics. Glasgow, Scotland: IOS Press, mag. 2025, pp. 677-681. ISBN: 978-1-64368-485-7. DOI: 10.3233/SHTI250434.
- 17 Riccardo Lunardi, **Michael Soprano**, Paolo Coppola, Vincenzo Della Mea, Stefano Mizzaro e Kevin Roitero. "PILs of Knowledge: A Synthetic Benchmark for Evaluating Question Answering Systems in Healthcare". In: *Proceedings of the 48th International ACM SIGIR Conference on Research and Development in Information Retrieval*. SIGIR '25. Padua, Italy: Association for Computing Machinery, lug. 2025, pp. 3648-3658. ISBN: 9798400715921. DOI: 10.1145/3726302.3730283.

- 18 Kevin Roitero, Dustin Wright, **Michael Soprano**, Isabelle Augenstein e Stefano Mizzaro. “Efficiency and Effectiveness of LLM-Based Summarization of Evidence in Crowdsourced Fact-Checking”. In: *Proceedings of the 48th International ACM SIGIR Conference on Research and Development in Information Retrieval*. SIGIR '25. Padua, Italy: Association for Computing Machinery, lug. 2025, pp. 457–467. ISBN: 9798400715921. DOI: 10.1145/3726302.3729960.
- 19 **Michael Soprano**, Maddalena Eddy, Francesca Da Ros, Maria Elena Zuliani e Stefano Mizzaro. “Evaluation of Crowdsourced Peer Review using Synthetic Data and Simulations”. In: *Proceedings of the 21st Conference on Information and Research Science Connecting to Digital and Library Science*. Vol. 3937. CEUR Workshop Proceedings. Udine, Italy: CEUR-WS.org, mar. 2025.
- 20 **Michael Soprano**, Sandip Modha, Kevin Roitero, Eddy Maddalena, Marco Viviani, Gabriella Pasi e Stefano Mizzaro. “AIDME: A Scalable, Interpretable Framework for AI-Aided Scoping Reviews”. In: *Proceedings of the 2025 International ACM SIGIR Conference on Innovative Concepts and Theories in Information Retrieval (ICTIR)*. ICTIR '25. Padua, Italy: Association for Computing Machinery, lug. 2025, pp. 194–207. ISBN: 9798400718618. DOI: 10.1145/3731120.3744586.
- 21 **Michael Soprano**, Denis Eduard Tapu, David La Barbera, Kevin Roitero e Stefano Mizzaro. “The Magnitude of Truth: On Using Magnitude Estimation for Truthfulness Assessment”. In: *Proceedings of the 48th International ACM SIGIR Conference on Research and Development in Information Retrieval*. SIGIR '25. Padua, Italy: Association for Computing Machinery, lug. 2025, pp. 446–456. ISBN: 9798400715921. DOI: 10.1145/3726302.3730091.
- 22 Kevin Roitero, **Michael Soprano**, David La Barbera, Eddy Maddalena e Stefano Mizzaro. “Enhancing Fact-Checking: From Crowdsourced Validation to Integration with Large Language Models”. In: *Proceedings of the 14th Italian Information Retrieval Workshop*. Vol. 3802. CEUR Workshop Proceedings. Udine, Italy: CEUR-WS.org, ott. 2024, pp. 74–77.
- 23 Jaspreet Singh, **Michael Soprano**, Kevin Roitero e Davide Ceolin. “Crowdsourcing Statement Classification to Enhance Information Quality Prediction”. In: *Proceedings of the 6th Multidisciplinary International Symposium on Disinformation in Open Online Media (MISDOOM 2024)*. Lecture Notes in Computer Science. Münster, Germany: Springer Nature Switzerland, ago. 2024, pp. 70–85. ISBN: 978-3-031-71210-4. DOI: 10.1007/978-3-031-71210-4_5.
- 24 David La Barbera, **Michael Soprano**, Kevin Roitero, Eddy Maddalena e Stefano Mizzaro. “Fact-Checking at Scale with Crowdsourcing: Experiments and Lessons Learned”. In: *Proceedings of the 13th Italian Information Retrieval Workshop*. Vol. 3448. CEUR Workshop Proceedings. Pisa, Italy: CEUR-WS.org, ago. 2023, pp. 85–90.
- 25 **Michael Soprano**, Kevin Roitero, Vincenzo Della Mea e Stefano Mizzaro. “Towards a Conversational-Based Agent for Health Services”. In: *Proceedings of the Italia Intelligenza Artificiale - Thematic Workshops co-located with the 3rd CINI National Lab AIIS Conference on Artificial Intelligence*. Vol. 3486. CEUR Workshop Proceedings. Pisa, Italy: CEUR-WS.org, set. 2023, pp. 278–283.
- 26 Tim Draws, David La Barbera, **Michael Soprano**, Kevin Roitero, Davide Ceolin, Alessandro Checco e Stefano Mizzaro. “The Effects of Crowd Worker Biases in Fact-Checking Tasks”. In: *2022 ACM Conference on Fairness, Accountability, and Transparency*. FAccT '22. Seoul, Republic of Korea: Association for Computing Machinery, giu. 2022, pp. 2114–2124. ISBN: 9781450393522. DOI: 10.1145/3531146.3534629.
- 27 **Michael Soprano**, Kevin Roitero, Francesco Bombassei De Bona e Stefano Mizzaro. “Crowd_Frame: A Simple and Complete Framework to Deploy Complex Crowdsourcing Tasks Off-the-Shelf”. In: *Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining*. WSDM '22. Conference Ranks: GGS A+, Core A*. Virtual Event, AZ, USA: Association for Computing Machinery, feb. 2022, pp. 1605–1608. ISBN: 9781450391320. DOI: 10.1145/3488560.3502182.
- 28 Erik Brand, Kevin Roitero, **Michael Soprano** e Gianluca Demartini. “E-BART: Jointly Predicting and Explaining Truthfulness”. In: *Proceedings of The 2021 Truth and Trust Online Conference*. Virtual Event, ott. 2021, pp. 18–27.
- 29 Davide Ceolin, Giuseppe Primiero, Jan Wielemaker e **Michael Soprano**. “Assessing the Quality of Online Reviews Using Formal Argumentation Theory”. In: *Web Engineering*. Conference Ranks (2021): GGS B-, Core B. Biarritz, France: Springer International Publishing, mag. 2021, pp. 71–87. ISBN: 978-3-030-74296-6. DOI: 10.1007/978-3-030-74296-6_6.
- 30 Kevin Roitero, **Michael Soprano**, Shaoyang Fan, Damiano Spina, Stefano Mizzaro e Gianluca Demartini. “Can The Crowd Identify Misinformation Objectively? The Effects of Judgment Scale and Assessor’s Background”. In: *Proceedings of the 43st International ACM SIGIR Conference on Research and Development in Information Retrieval*. SIGIR '20. Conference Rank: GGS A++, Core A*. Xi’an, China (Virtual): Association for Computing Machinery, lug. 2020, pp. 439–448. ISBN: 9781450380164. DOI: 10.1145/3397271.3401112.

- ³¹ Kevin Roitero, **Michael Soprano**, Beatrice Portelli, Damiano Spina, Vincenzo Della Mea, Giuseppe Serra, Stefano Mizzaro e Gianluca Demartini. “The COVID-19 Infodemic: Can the Crowd Judge Recent Misinformation Objectively?” In: *Proceedings of the 29th ACM International Conference on Information and Knowledge Management*. CIKM '20. Conference Ranks: GGS A+, Core A. Virtual Event, Ireland: Association for Computing Machinery, ott. 2020, pp. 1305–1314. ISBN: 9781450368599. DOI: 10.1145/3340531.3412048.
- ³² **Michael Soprano** e Stefano Mizzaro. “Crowdsourcing Peer Review in the Digital Humanities?” In: *Book of Abstracts, 8th AIUCD Conference 2019 – Pedagogy, Teaching, and Research in the Age of Digital Humanities*. AIUCD '19. Udine, Italy, mar. 2019, p. 251. ISBN: 9788894253535.
- ³³ **Michael Soprano** e Stefano Mizzaro. “Crowdsourcing Peer Review: As We May Do”. In: *Digital Libraries: Supporting Open Science*. Vol. 988. Communications in Computer and Information Science. Pisa, Italy: Springer, gen. 2019, 259–273. DOI: {10.1007/978-3-030-11226-4_21}.
- ³⁴ **Michael Soprano**, Kevin Roitero e Stefano Mizzaro. “Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Models”. In: *Proceedings of the 10th Italian Information Retrieval Workshop*. Vol. 2441. CEUR Workshop Proceedings. Padova, Italy: CEUR-WS.org, set. 2019, 6–7.
- ³⁵ **Michael Soprano**, Kevin Roitero e Stefano Mizzaro. “HITS Hits Readersourcing: Validating Peer Review Alternatives Using Network Analysis”. In: *Proceedings of the 4th Joint Workshop on Bibliometric-enhanced Information Retrieval and Natural Language Processing for Digital Libraries co-located with the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval*. Vol. 2414. CEUR Workshop Proceedings. Paris, France: CEUR-WS.org, lug. 2019, 70–82.
- ³⁶ Kevin Roitero, **Michael Soprano** e Stefano Mizzaro. “Effectiveness Evaluation with a Subset of Topics: A Practical Approach”. In: *The 41st International ACM SIGIR Conference on Research and Development in Information Retrieval*. SIGIR '18. Conference Rank: GGS A++, Core A*. Ann Arbor, MI, USA: Association for Computing Machinery, giu. 2018, pp. 1145–1148. ISBN: 9781450356572. DOI: 10.1145/3209978.3210108.

Thesis

- ³⁷ **Michael Soprano**. In *Crowd Veritas: Leveraging Human Intelligence To Fight Misinformation*. arXiv. Revised version of the PhD thesis, defended 22 May 2023. Giu. 2025. DOI: 10.48550/arXiv.2506.09221. eprint: 2506.09221 (cs.IR).

Bibliometric Indicators

	 Scholar	 Scopus	 ACM DL
Articles	35	28	24
Citations	577	302	168
h-index	12	9	–
i10-index	14	–	–

Teaching

- 24–25/25–26 **Web Applications**. Role: *Course Leader*. Master’s Degree in “Management Engineering”, University of Udine. Course design and delivery; 24 lectures (48 hours). Assessment based on project work.
- 24–25/25–26 **Information Analysis and Processing for Training**. Role: *Course Leader*. Bachelor’s Degree in “Sports Science”, University of Udine; from academic year 2025/2026, also offered within the Master’s Degree in “Science and Techniques of Preventive and Adapted Physical Activities”. Course design and delivery; 12 lectures (24 hours). Assessment based on a written exam.
- 20–21/25–26 **Social Computing**. Role: *Teaching Assistant*. Instructor: Stefano Mizzaro. Bachelor’s Degree in “Internet of Things, Big Data & Web”, University of Udine. Preparation of teaching materials, support for lectures, and development of lab projects. In-class teaching involvement: 1–12 hours per academic year.

Organizational Roles

- 2026 49th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2026). **Tutorials Chair.**
- 2025 Workshop “AI, Misinformation and Disinformation” – Ital-IA 2025, Trieste, June 23. **Organizer** .
<https://www.ital-ia2025.it/workshop/ai-misinformation-and-disinformation.html>
- 2025 21st Italian Research Conference on Digital Libraries (IRCDL 2025), Udine, February 20-21. **Website Chair.**
<https://ircdl2025.uniud.it/>
- 2024 14th Italian Information Retrieval Workshop (IIR 2024), Udine, September 5-6. **Website Chair.**
<https://iir2024.uniud.it/>
- 2023 CARE: Conversational Agents and Responsible Ethics in Healthcare – Workshop at EFMI STC 2023, Turin, October 27. **Organizer.**
- 2022 Fourth Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2022), Online, October 12-13. **Proceedings and Website Chair.**
<https://bhcc2022.org/>

Program Committee Roles

- 2025 15th Italian Information Retrieval Workshop (IIR 2025), Cagliari, September 3-5. **Full and Short Papers Tracks.**
- 2024 12th AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2024), Pittsburgh, Pennsylvania, USA. **Full Papers Track.**
- 2024 47th International ACM SIGIR Conference (SIGIR 2024), Washington D.C., USA. **Full and Short Papers Tracks.**
- 2023 45th European Conference on Information Retrieval (ECIR 2023), Dublin, Ireland. **Short Papers Track.**
- 2022 45th International ACM SIGIR Conference (SIGIR 2022), Madrid, Spain. **Short Papers Track.**
- 2021 Third Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021), Online. **Program Committee Member.**

Reviewing Activity

- 2026 *19th ACM International Conference on Web Search and Data Mining (WSDM 2026)*
- 2025 *Umanistica Digitale* (Italian Journal of Digital Humanities), ISSN 2532-8816.
<https://umanisticadigitale.unibo.it/>
- 2025 *International Journal on Digital Libraries (IJDL)*. <https://portal.issn.org/resource/ISSN/0378-2484>
- 2025 *Data Science and Engineering (DSE)*. <https://portal.issn.org/resource/ISSN/23641541>
- 2023 *Information Processing & Management (IP&M)*. <https://portal.issn.org/resource/ISSN/0306-4573>. Review activity recorded on ORCID.
- 2023 *Springer Nature Scientific Reports*. <https://portal.issn.org/resource/ISSN/2045-2322>
- 2023 *13th Italian Information Retrieval Workshop (IIR 2023)*, Pisa, Italy
- 2022 *Information Processing & Management*. <https://portal.issn.org/resource/ISSN/0306-4573>
- 2022 *Tenth AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2022)*, Online
- 2022 *Conference and Labs of the Evaluation Forum (CLEF 2022)*, Bologna, Italy
- 2022 *44th European Conference on Information Retrieval (ECIR 2022)*, Stavanger, Norway
- 2022 *Second Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021)*, Delft, Netherlands (online)

- 2021 *30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*, Online
- 2021 *32nd ACM Conference on Hypertext and Social Media (HT 2021)*, Online
- 2020 *29th ACM International Conference on Information and Knowledge Management (CIKM 2020)*, Galway, Ireland (online)
- 2020 *31st ACM Conference on Hypertext and Social Media (HT 2020)*, Online
- 2019 *15th Italian Research Conference on Digital Libraries (IRCDL 2019)*, Pisa, Italy

Student Supervision and Mentoring

2020–Present

Co-supervision of 11 Master’s (MSc) theses and 17 Bachelor’s (BSc) theses, as well as supervision of advanced student projects and seminars.

Affiliations

2021–Present **Member** of the Social, Mobile, Data & Crowd laboratory (SMDC), University of Udine.
<https://smdc.uniud.it/smdc/en/members/>

Honors & Awards

- 2025 **PhD Award 2024.** Awarded by the University of Udine for the best PhD thesis in the scientific area for 2023. Thesis title: *In Crowd Veritas: Leveraging Human Intelligence to Fight Misinformation.*
- 2022 **Student Grant.** *15th ACM International Conference on Web Search and Data Mining (WSDM 2022)*, Phoenix, USA. Granted by WSDM. Free conference registration. Conference attended remotely due to the COVID-19 pandemic.
- 2020 **Student Grant.** *29th ACM International Conference on Information and Knowledge Management (CIKM 2020)*, Galway, Ireland. Granted by CIKM. Free conference registration. Conference attended remotely due to the COVID-19 pandemic.
- 2020 **Student Volunteer.** *43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2020)*, Xi’an, China. Selected by SIGIR. Free conference registration. Conference attended remotely due to the COVID-19 pandemic.

Links

ORCID: <https://orcid.org/0000-0002-7337-7592>

Google Scholar: <https://scholar.google.com/citations?user=ocK0qRUAAAAJ>

DBLP: <https://dblp.org/pid/222/1241.html>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57203392311>

Web of Science: <https://www.webofscience.com/wos/author/record/JDD-6660-2023>

ACM Digital Library: <https://dl.acm.org/profile/99659280921>

Semantic Scholar: <https://www.semanticscholar.org/author/Michael-Soprano/51006308>

GitHub: <https://github.com/Miccighel>

OSF: <https://osf.io/fmx3s/>

Zenodo: <https://zenodo.org/search?q=michael+soprano>

arXiv: https://arxiv.org/a/soprano_m_1

ResearchGate: <https://www.researchgate.net/profile/Michael-Soprano>

Kudos: https://www.growkudos.com/profile/michael_soprano

In compliance with GDPR 679/16 and Italian Legislative Decree no. 196 of June 30, 2003 ("Code regarding the protection of personal data"), I hereby authorize the processing of my personal data for the purposes of recruitment, research, and professional contacts.

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