

# Michael Soprano, PhD

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## Education

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Nov. 2019 – Jan. 2023	<b>PhD in Computer Science, Mathematics and Physics</b> , Cum Laude. 35 <sup>th</sup> cycle, University of Udine, Italy.
Mar. 2015 – Mar. 2018	<b>Master Degree in Computer Science</b> , 109/110, University of Udine, Italy.
Oct. 2011 – Mar. 2015	<b>Bachelor Degree in Web Technologies and Multimedia</b> , 101/110, University of Udine, Italy.
Sep. 2006 – Jun. 2011	<b>High School Diploma</b> , Head Technician Industrial Expert – Computer Science Specialization, 77/100, I.S.I.S. R. D'Aronco, Gemona del Friuli, Italy.

## Work Experience

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Jun. 2025 – Present	<b>Postdoctoral Researcher.</b> Department of Mathematics, Computer Science and Physics (DMIF), University of Udine, Italy. Research contract pursuant to Article 22 of Law 240/2010, regulated by the new University regulation approved on April 30 2025. Research on information and disinformation, with focus on the automatic evaluation of information truthfulness, experimentation with detection models, and definition of evaluation metrics.
Mar. 2025 – May 2025	<b>Self-employed Worker.</b> 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; prototype development, experimental evaluation, and data analysis within the inter-departmental project “Governance and Digital Public Administration.”
Dec. 2023 – May 2025	<b>Postdoctoral Researcher.</b> DMIF, University of Udine. 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 EU – Next Generation EU – PNRR M4 C2 I1.1. Definition of an evaluation framework for misinformation-detection systems: creation of labelled datasets, bias prevention, and metrics that account for information truthfulness.
Mar. 2023 – Nov. 2023	<b>Postdoctoral Researcher.</b> DIES, University of Udine. Research on eGovernment applications based on conversational agents for the Italian public administration, with particular emphasis on the healthcare domain.
Jan. 2022 – Mar. 2022	<b>Self-employed Worker.</b> Polytechnic Department of Engineering and Architecture (DPIA), University of Udine. Development of a web application for the comparability and reproducibility of research results in combinatorial optimization.
Jun. 2018 – Oct. 2019	<b>Research Fellow.</b> DMIF, University of Udine. Research project co-funded by SISSA Medialab: design, implementation, and evaluation of an ecosystem providing an alternative to traditional peer review in scholarly publishing.

Jun. 2017 – Oct. 2019	<b>Self-employed Worker.</b> Datamantix S.r.l., Udine, Italy. Design, development, and maintenance of various web applications and a chat-bot as a full-stack developer.
Aug. 2017 – Feb. 2018	<b>Self-employed Worker.</b> Archeido S.r.l., Udine, Italy. Development of a web application for managing and visualizing financial assets as a full-stack developer.
Nov. 2015 – Feb. 2016	<b>Self-employed Worker.</b> Troublezine. Design, development, and maintenance of a music news and events blog as a full-stack web developer.

## Visits

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Mar. 2022 – Jul. 2022	<b>Visiting Student</b> , Centrum Wiskunde & Informatica (CWI), Human-Centered Data Analytics Group, Amsterdam, The Netherlands. Research visit during the PhD programme.
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## Talks

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Jul. 2025	<b>AIDME: A Scalable, Interpretable Framework for AI-Aided Scoping Reviews.</b> <i>The 15th International Conference on Innovative Concepts and Theories in Information Retrieval</i> , July 18, 2025. Padua, Italy. <a href="https://michaelsoprano.com/media/posters/AIDME-Framework_ICTIR-2025.pdf">https://michaelsoprano.com/media/posters/AIDME-Framework_ICTIR-2025.pdf</a>
Jul. 2025	<b>The Magnitude of Truth: On Using Magnitude Estimation for Truthfulness Assessment.</b> <i>The 48th International ACM SIGIR Conference on Research and Development in Information Retrieval</i> , July 16, 2025. Padua, Italy. <a href="https://sigir2025.dei.unipd.it/detailed-program/paper?paper=006f52e9102a8d3be2fe5614f42ba989">https://sigir2025.dei.unipd.it/detailed-program/paper?paper=006f52e9102a8d3be2fe5614f42ba989</a>
Jun. 2025	<b>AIDME: A Scalable, Interpretable Framework for AI-Aided Scoping Reviews.</b> <i>Workshop “AI, Misinformation and Disinformation” – Ital-IA 2025</i> , June 23, 2025. Trieste, Italy. <a href="https://michaelsoprano.com/media/talks/AIDME-Framework-Ital-IA.pdf">https://michaelsoprano.com/media/talks/AIDME-Framework-Ital-IA.pdf</a>
Feb. 2025	<b>Evaluation of Crowdsourced Peer Review using Synthetic Data and Simulations.</b> <i>21st Conference on Information and Research Science Connecting to Digital and Library Science (IRCDL 2025)</i> , February 20, 2025. Udine, Italy. <a href="https://michaelsoprano.com/media/talks/Evaluation-of-Crowdsourced-Peer-Review-using-Synthetic-Data-and-Simulations.pdf">https://michaelsoprano.com/media/talks/Evaluation-of-Crowdsourced-Peer-Review-using-Synthetic-Data-and-Simulations.pdf</a>
Sep. 2024	<b>Deploying Complex Crowdsourcing Tasks Without Fear: An Introduction to Crowd_Frame.</b> <i>The 3rd Italian Conference on Big Data and Data Science (ITADATA 2024)</i> , September 17, 2024. Pisa, Italy. <a href="https://michaelsoprano.com/media/talks/An-Introduction-To-Crowd_Frame.pdf">https://michaelsoprano.com/media/talks/An-Introduction-To-Crowd_Frame.pdf</a>
Oct. 2023	<b>Towards a Conversational-Based Agent for Healthcare.</b> <i>CARE: Conversational Agents and Responsible Ethics in Healthcare – Workshop at the European Federation of Medical Informatics Special Topic Conference 2023</i> , October 27, 2023. Turin, Italy. <a href="https://docs.google.com/presentation/d/1IZaI38o0J3FktP79dINPOL_9lqXmQf-a3TC7vf5qmfU">https://docs.google.com/presentation/d/1IZaI38o0J3FktP79dINPOL_9lqXmQf-a3TC7vf5qmfU</a>
May 2023	<b>Towards a Conversational-Based Agent for Health Services.</b> <i>Third National CINI Conference on Artificial Intelligence</i> , May 29, 2023. Pisa, Italy. <a href="https://www.ital-ia2023.it/submission/96/presentation">https://www.ital-ia2023.it/submission/96/presentation</a>
Feb. 2022	<b>Crowd_Frame: A Simple and Complete Framework to Deploy Complex Crowdsourcing Tasks Off-the-Shelf.</b> <i>The 15th ACM International Conference on Web Search and Data Mining</i> , February 15, 2022. Phoenix, U.S.A. (remote). Remote presentation due to the COVID-19 pandemic. <a href="https://dl.acm.org/doi/abs/10.1145/3488560.3502182">https://dl.acm.org/doi/abs/10.1145/3488560.3502182</a>

- 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://dl.acm.org/doi/10.1145/3340531.3412048>
- 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://dl.acm.org/doi/abs/10.1145/3397271.3401112>
- 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://docs.google.com/presentation/d/1F751FzwnxZjA0y0ctZy91BWEJz1CV19L9fF50Cn20Lo>

## Publications

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### Journal Articles

- 1 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 (SJ) Q1 (2023), p. 103792. ISSN: 0306-4573. DOI: 10.1016/j.ipm.2024.103792.
- 2 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.
- 3 **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 (SJ) Q2 (2023). DOI: 10.1145/3674884.
- 4 **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 (SJ) Q1 (2022), p. 103672. ISSN: 0306-4573. DOI: 10.1016/j.ipm.2024.103672.
- 5 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.
- 6 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 (SJ) Q1 (2021). ISSN: 1046-8188. DOI: 10.1145/3597201.
- 7 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 (SJ) Q2 (2021). ISSN: 1936-1955. DOI: 10.1145/3546917.
- 8 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 (SJ) Q1 (2021), p. 102107. ISSN: 0306-4379. DOI: 10.1016/j.is.2022.102107.
- 9 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 (SJ) Q1 (2021), pp. 59–89. ISSN: 1617-4917. DOI: 10.1007/s00779-021-01604-6.

<sup>10</sup> **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.

<sup>11</sup> 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 Proceedings

<sup>12</sup> 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.

<sup>13</sup> 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.

<sup>14</sup> 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.

<sup>15</sup> 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.

<sup>16</sup> **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.

<sup>17</sup> **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.

<sup>18</sup> **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.

<sup>19</sup> 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.

<sup>20</sup> 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.






- 21 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.
- 22 **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 AIIIS Conference on Artificial Intelligence*. Vol. 3486. CEUR Workshop Proceedings. Pisa, Italy: CEUR-WS.org, set. 2023, pp. 278–283.
- 23 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.
- 24 **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.
- 25 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.
- 26 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.
- 27 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 43rd 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.
- 28 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.
- 29 **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.
- 30 **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}.
- 31 **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.
- 32 **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.
- 33 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.

## Preprints and Thesis

- 34 Francesca Da Ros, **Michael Soprano**, Luca Di Gaspero e Kevin Roitero. *Large Language Models for Combinatorial Optimization: A Systematic Review*. arXiv. Lug. 2025. DOI: 10.48550/2507.03637. eprint: 2507.03637 (cs.AI).
- 35 **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).

## Metrics

	 Scholar	 Scopus	 ACM DL
Articles	35	27	23
Citations	481	262	148
h-index	12	7	
i10-index	12		

## Teaching

- 2024–2025 **Web Applications**. Role: *Course Leader*. Master’s Degree in “Management Engineering”, University of Udine. I designed and taught the course, consisting of 24 lectures for a total of 48 hours. Assessment was based on a project.
- 2024–2025 **Information Analysis and Processing for Training**. Role: *Course Leader*. Bachelor’s Degree in “Sports Science”, University of Udine. I designed and taught the course, consisting of 12 lectures for a total of 24 hours. Assessment was based on a written exam.
- 20–21/24–25 **Social Computing**. Role: *Teaching Assistant*. Instructor: Stefano Mizzaro. Bachelor’s Degree in “Internet of Things, Big Data & Web”, University of Udine. I prepared slides, gave lectures, and designed student projects for the lab component of the course. My in-class involvement ranged from 4 to 12 hours per year.

## Organizational Roles

- 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 21th 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. <b>Short Papers Track.</b>
2022	45th International ACM SIGIR Conference (SIGIR 2022), Madrid, Spain. <b>Short Papers Track.</b>
2021	Third Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021), Online. <b>Program Committee Member.</b>

## Reviewer

Sep. 2025	Digital Humanities (Italian Journal of Digital Humanities), ISSN 2532-8816. <a href="https://umanisticadigitale.unibo.it/">https://umanisticadigitale.unibo.it/</a>
2025	<i>International Journal on Digital Libraries (IJDL)</i> . <a href="https://portal.issn.org/resource/ISSN/0378-2484">https://portal.issn.org/resource/ISSN/0378-2484</a>
2025	<i>Data Science and Engineering (DSE)</i> . <a href="https://portal.issn.org/resource/ISSN/23641541">https://portal.issn.org/resource/ISSN/23641541</a>
2023	<i>Information Processing &amp; Management (IP&amp;M)</i> . <a href="https://portal.issn.org/resource/ISSN/0306-4573">https://portal.issn.org/resource/ISSN/0306-4573</a> . Contribution registered on ORCID profile
2023	<i>Springer Nature Scientific Reports</i> . <a href="https://portal.issn.org/resource/ISSN/2045-2322">https://portal.issn.org/resource/ISSN/2045-2322</a>
2023	<i>13th Italian Information Retrieval Workshop (IIR 2023)</i> , Pisa, Italy
2022	<i>Information Processing &amp; Management</i> . <a href="https://portal.issn.org/resource/ISSN/0306-4573">https://portal.issn.org/resource/ISSN/0306-4573</a>
2022	<i>Tenth AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2022)</i> , Online
2022	<i>Conference and Labs of the Evaluation Forum (CLEF 2022)</i> , Bologna, Italy
2022	<i>44th European Conference on Information Retrieval (ECIR 2022)</i> , Stavanger, Norway
2022	<i>Second Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021)</i> , Delft, Netherlands (Online)
2021	<i>30th ACM International Conference On Information And Knowledge Management (CIKM 2021)</i> , Online
2021	<i>32nd ACM Conference on Hypertext and Social Media (HT 2021)</i> , Online
2020	<i>29th ACM International Conference On Information And Knowledge Management (CIKM 2020)</i> , Galway, Ireland (Online)
2020	<i>31st ACM Conference on Hypertext and Social Media (HT 2020)</i> , Online
2019	<i>15th Italian Research Conference On Digital Libraries (IRCDL 2019)</i> , Pisa, Italy

## Mentoring

2020 – Today	<b>Co-supervision</b> of the theses of 11 Master's (MSc) and 16 Bachelor's (BSc) students, as well as various advanced projects and seminars.
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## Affiliations

2021 – Today	<b>Member</b> of the Social, Mobile, Data & Crowd laboratory (SMDC), see: <a href="https://smdc.uniud.it/smdc/en/members/">https://smdc.uniud.it/smdc/en/members/</a>
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## Honors & Awards

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2025	<b>PhD Award 2024.</b> Recipient of an award from the University of Udine for the best PhD thesis in the scientific area for 2023. Thesis title: <i>In Crowd Veritas: Leveraging Human Intelligence to Fight Misinformation</i> .
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2022	<b>Student Grant.</b> <i>15th ACM International Conference on Web Search and Data Mining (WSDM 2022)</i> , Phoenix, U.S.A. Provided by WSDM. Free conference registration. Held remotely due to the COVID-19 pandemic.
2020	<b>Student Grant.</b> <i>29th ACM International Conference On Information And Knowledge Management (CIKM 2020)</i> , Galway, Ireland. Provided by CIKM. Free conference registration. Held remotely due to the COVID-19 pandemic.
2019	<b>Volunteer.</b> <i>43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2020)</i> , Xi'an, China. Provided by SIGIR. Free conference registration. Held remotely due to the COVID-19 pandemic.

## Links

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

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

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

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

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

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

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

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

**arXiv:** [http://arxiv.org/a/soprano\\_m\\_1](http://arxiv.org/a/soprano_m_1)

**Kudos:** [https://www.growkudos.com/profile/michael\\_soprano](https://www.growkudos.com/profile/michael_soprano)

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

**OpenAlex:** <https://openalex.org/authors/A1234567890>

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

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

*In compliance with GDPR 679/16 and the Italian Legislative Decree no. 196 dated 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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