

# Michael Soprano, PhD

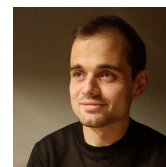
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## Istruzione

- Nov. 2019 – Gen. 2023      📖 **Dottorato**, Università degli Studi di Udine, Italia. Cum Laude. Informatica e Scienze Matematiche e Fisiche, 35° ciclo.
- Mar. 2015 – Mar. 2018      📖 **Laurea Magistrale in Informatica**, Università degli Studi di Udine, Italia, 109/110.
- Ott. 2011 – Mar. 2015      📖 **Laurea Triennale in Tecnologie Web e Multimediali**, Università degli Studi di Udine, Italia, 101/110.
- Set. 2006 – Giu. 2011      📖 **Diploma di Scuola Secondaria**, I.S.I.S. R. D'Aronco, Gemona del Friuli, Italia, 77/100.  
Perito Industriale Capotecnico - Specializzazione Informatica

## Visite

- Mar. 2022 – Jul. 2022      📖 **Studente in Visita**, Centrum Wiskunde & Informatica, Amsterdam, The Netherlands.  
Periodo di visita come studente di dottorato.

## Esperienza Lavorativa

- Mar. 2023 - Today      📖 **Assegnista di Ricerca (PostDoc)**, Università degli Studi di Udine, Italy.  
Progetto di ricerca relativo all'uso di agenti conversazionali nella pubblica amministrazione.
- Giu. 2018 - Ott. 2019      📖 **Assegnista di Ricerca**, Università degli Studi di Udine, Italia  
Progetto di ricerca cofinanziato da SISSA Medialab.
- Giu. 2017 – Ott. 2019      📖 **Sviluppatore Web Full Stack** Datamantix S.r.l., Udine, Italia.  
Progettazione, sviluppo e manutenzione di applicazioni web e chatbot.
- Ago. 2017 – Feb. 2018      📖 **Sviluppatore Web Full Stack** Archeido S.r.l., Udine, Italia.  
Sviluppo di un'applicazione web.
- Nov. 2015 – Feb. 2016      📖 **Sviluppatore Web Full Stack** Troublezine.  
Progettazione, sviluppo e manutenzione di un'applicazione web.

## Pubblicazioni

- 1      **Soprano, M.**, Roitero, K., Della Mea, V., & Mizzaro, S. (2023). Towards a Conversational-Based Agent for Health Services. In F. Falchi, F. Giannotti, A. Monreale, C. Boldrini, S. Rinzivillo, & S. Colantonio (Eds.), *Proceedings of the italia intelligenza artificiale - thematic workshops co-located with the 3rd cini national lab aiis conference on artificial intelligence* (Vol. 3486, pp. 278–283). Pisa, Italy: CEUR-WS.org. Retrieved from 🌐 <https://ceur-ws.org/Vol-3486/96.pdf>
- 2      La Barbera, D., **Soprano, M.**, Roitero, K., Maddalena, E., & Mizzaro, S. (2023). Fact-Checking at Scale with Crowdsourcing: Experiments and Lessons Learned. In F. M. Nardini, N. Tonelotto, G. Faggioli, &

A. Ferrara (Eds.), *Proceedings of the 13th Italian Information Retrieval Workshop* (Vol. 3448, pp. 85–90). Pisa, Italy: CEUR-WS.org. Retrieved from <https://ceur-ws.org/Vol-3448/paper-18.pdf>

- 3 Roitero, K., Barbera, D. L., **Soprano, M.**, Demartini, G., Mizzaro, S., & Sakai, T. (2023). How Many Crowd Workers Do I Need? On Statistical Power When Crowdsourcing Relevance Judgments. *ACM Transactions on Information Systems*. Journal Ranks: Journal Citation Reports (JCR) Q1 (2021), Scimago (SJR) Q1 (2021). [doi:10.1145/3597201](https://doi.org/10.1145/3597201)
- 4 Brand, E., Roitero, K., **Soprano, M.**, Rahimi, A., & Demartini, G. (2022). A Neural Model to Jointly Predict and Explain Truthfulness of Statements. *Journal of Data and Information Quality*, 15(1). Journal Ranks: Journal Citation Reports (JCR) Q3 (2021), Scimago (SJR) Q2 (2021). [doi:10.1145/3546917](https://doi.org/10.1145/3546917)
- 5 Ceolin, D., Primiero, G., **Soprano, M.**, & Wielemaker, J. (2022). Transparent Assessment of Information Quality of Online Reviews Using Formal Argumentation theory. *Information Systems*, 110, 102107. Journal Ranks: Journal Citation Reports (JCR) Q2 (2021), Scimago (SJR) Q1 (2021). [doi:10.1016/j.is.2022.102107](https://doi.org/10.1016/j.is.2022.102107)
- 6 Draws, T., La Barbera, D., **Soprano, M.**, Roitero, K., Ceolin, D., Checco, A., & Mizzaro, S. (2022). The Effects of Crowd Worker Biases in Fact-Checking Tasks. In *2022 ACM Conference on Fairness, Accountability, and Transparency* (pp. 2114–2124). [doi:10.1145/3531146.3534629](https://doi.org/10.1145/3531146.3534629)
- 7 **Soprano, M.**, Roitero, K., Bombassei De Bona, F., & Mizzaro, S. (2022). 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* (pp. 1605–1608). Conference Ranks: GGS A+, Core A\*. [doi:10.1145/3488560.3502182](https://doi.org/10.1145/3488560.3502182)
- 8 **Soprano, M.**, Roitero, K., La Barbera, D., Ceolin, D., Spina, D., Mizzaro, S., & Demartini, G. (2021). The Many Dimensions of Truthfulness: Crowdsourcing Misinformation Assessments on a Multidimensional Scale. *Information Processing & Management*, 58(6), 102710. Journal Ranks: Journal Citation Reports (JCR) Q1 (2021), Scimago (SJR) Q1 (2021). [doi:10.1016/j.ipm.2021.102710](https://doi.org/10.1016/j.ipm.2021.102710)
- 9 Brand, E., Roitero, K., **Soprano, M.**, & Demartini, G. (2021). E-BART: Jointly Predicting and Explaining Truthfulness. In I. Augenstein, P. Papotti, & D. Wright (Eds.), *Proceedings of the 2021 Truth and Trust Online Conference* (pp. 18–27). Virtual Event. Retrieved from [https://truthandtrustonline.com/wp-content/uploads/2021/10/TT02021\\_paper\\_16-1.pdf](https://truthandtrustonline.com/wp-content/uploads/2021/10/TT02021_paper_16-1.pdf)
- 10 Ceolin, D., Primiero, G., Wielemaker, J., & **Soprano, M.** (2021). Assessing the Quality of Online Reviews Using Formal Argumentation Theory. In M. Brambilla, R. Chbeir, F. Frasincar, & I. Manolescu (Eds.), *Web Engineering* (pp. 71–87). Conference Ranks (2021): GGS B-, Core B. [doi:10.1007/978-3-030-74296-6\\_6](https://doi.org/10.1007/978-3-030-74296-6_6)
- 11 Roitero, K., **Soprano, M.**, Portelli, B., De Luise, M., Spina, D., Mea, V. D., ... Demartini, G. (2021). Can The Crowd Judge Truthfulness? A Longitudinal Study On Recent Misinformation About COVID-19. *Personal and Ubiquitous Computing*, 27(1), 59–89. Journal Ranks: Journal Citation Reports (JCR) Q2 (2020), Scimago (SJR) Q1 (2021). [doi:10.1007/s00779-021-01604-6](https://doi.org/10.1007/s00779-021-01604-6)
- 12 Roitero, K., **Soprano, M.**, Portelli, B., Spina, D., Della Mea, V., Serra, G., ... Demartini, G. (2020). The COVID-19 Infodemic: Can the Crowd Judge Recent Misinformation Objectively? In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management* (pp. 1305–1314). Conference Ranks: GGS A+, Core A. [doi:10.1145/3340531.3412048](https://doi.org/10.1145/3340531.3412048)
- 13 Roitero, K., **Soprano, M.**, Fan, S., Spina, D., Mizzaro, S., & Demartini, G. (2020). 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* (pp. 439–448). Conference Rank: GGS A++, Core A\*. [doi:10.1145/3397271.3401112](https://doi.org/10.1145/3397271.3401112)
- 14 **Soprano, M.**, Roitero, K., & Mizzaro, S. (2019a). Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Models. In Agosti, Maristella and Di Buccio, Emanuele and Melucci, Massimo and Mizzaro, Stefano and Pasi, Gabriella and Silvestri, Fabrizio (Ed.), *Proceedings of the 10th*




*Italian Information Retrieval Workshop* (Vol. 2441, 6–7). Padova, Italy: CEUR-WS.org. Retrieved from <http://ceur-ws.org/Vol-2441/paper4.pdf>

- 15 **Soprano, M.,** Roitero, K., & Mizzaro, S. (2019b). HITS Hits Readersourcing: Validating Peer Review Alternatives Using Network Analysis. In Chandrasekaran, Muthu Kumar and Mayr, Philipp (Ed.), *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, 70–82). Paris, France: CEUR-WS.org. Retrieved from <http://ceur-ws.org/Vol-2414/paper7.pdf>
- 16 **Soprano, M.,** & Mizzaro, S. (2019a). 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* (p. 251). Udine, Italy. Retrieved from [http://aiucd2019.uniud.it/wp-content/uploads/2020/03/AIUCD2019-BoA\\_DEF.pdf](http://aiucd2019.uniud.it/wp-content/uploads/2020/03/AIUCD2019-BoA_DEF.pdf)
- 17 **Soprano, M.,** & Mizzaro, S. (2019b). Crowdsourcing Peer Review: As We May Do. In Manghi, Paolo and Candela, Leonardo and Silvello, Gianmaria (Ed.), *Digital Libraries: Supporting Open Science* (Vol. 988, 259–273). doi:{10.1007/978-3-030-11226-4\_21}
- 18 Roitero, K., **Soprano, M.,** Brunello, A., & Mizzaro, S. (2018). Reproduce and Improve: An Evolutionary Approach to Select a Few Good Topics for Information Retrieval Evaluation. *Journal of Data and Information Quality*, 10(3). Journal Rank: Scimago (SJR) Q2 (2018). doi:10.1145/3239573
- 19 Roitero, K., **Soprano, M.,** & Mizzaro, S. (2018). Effectiveness Evaluation with a Subset of Topics: A Practical Approach. In *The 41st International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1145–1148). Conference Rank: GGS A++, Core A\*. doi:10.1145/3209978.3210108

## Metrics




	Scholar	Scopus	ACM Digital Library
Articoli	18	15	11
Citazioni	186	108	53
Citazioni / Articolo	10.33	7.00	4.81
H-index	6	5	–
i10-index	5	–	–

## Presentazioni

- 2023  **Towards a Conversational-Based Agent for Health Services** *Terzo Convegno Nazionale CINI sull'Intelligenza Artificiale*, 29 Maggio 2023. Pisa, Italy. <https://www.ital-ia2023.it/submission/96/presentation>
- 2022  **Longitudinal Loyalty: Understanding the Barriers to Running Longitudinal Studies on Crowdsourcing Platforms.** *Centrum Wiskunde & Informatica*, 16 Giugno 2022. Amsterdam, Paesi Bassi. [https://docs.google.com/presentation/d/1YBHKOKY\\_TdaCfw09-pqm\\_jDGKYUiyXaKXj35pR3pSoM/edit?usp=sharing](https://docs.google.com/presentation/d/1YBHKOKY_TdaCfw09-pqm_jDGKYUiyXaKXj35pR3pSoM/edit?usp=sharing)  
 **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*, 15 Febbraio 2022. Phoenix, U.S.A. Tenutosi da remoto come contributo pre-registrato, a causa dell'epidemia di COVID-19. <https://dl.acm.org/doi/abs/10.1145/3488560.3502182> (sezione supplemental material)




## Presentazioni (continued)

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- 2020  **The COVID-19 Infodemic: Can the Crowd Judge Recent Misinformation Objectively?** *29th ACM International Conference on Information and Knowledge Management*, 19 Ottobre 2020. Galway, Irlanda. Tenutosi da remoto come contributo pre-registrato, a causa dell'epidemia di COVID-19. <https://dl.acm.org/doi/10.1145/3340531.3412048> (sezione *supplemental material*).
-  **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*, 25 Luglio 2020. Xi'an, China. Tenutosi da remoto come contributo pre-registrato, a causa dell'epidemia di COVID-19. <https://dl.acm.org/doi/abs/10.1145/3397271.3401112> (sezione *supplemental material*)
- 2019  **Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Model** *Italian Information Retrieval Workshop*, 16 Settembre 2019. Padova, Italia. <https://docs.google.com/presentation/d/1F751FzwnxZjA0y0ctZy91BWEJzLCV19L9fF50Cn20Lo/edit?usp=sharing>

## Insegnamento

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- 2022-2023  **Social Computing**, Laurea Triennale in Internet of Things, Big Data & Web, Università degli Studi di Udine. Anno Accademico 2021/2022. Lezioni: 2. Ore: 4.
- 2021-2022  **Social Computing**, Laurea Triennale in Internet of Things, Big Data & Web, Università degli Studi di Udine. Anno Accademico 2021/2022. Lezioni: 6. Ore: 12.
- 2020-2021  **Social Computing**, Laurea Triennale in Internet of Things, Big Data & Web, Università degli Studi di Udine. Anno Accademico 2020/2021. Lezioni: 6. Ore: 12.




## Attività Accademica

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### Ruoli Organizzativi

- 2022  Fourth Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2022), Rome, Italy. Proceedings and Website Chair.

### Membro del Comitato di Programma






- 2023  45th European Conference on Information Retrieval (ECIR 2023), Dublin, Ireland. *Short Paper Track*.
- 2022  45th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2022), Madrid, Spain. *Short Paper Track*.
- 2021  Third Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021), Online.

### Revisore


- 2023  Information Processing & Management. ISSN della Rivista: <https://portal.issn.org/resource/ISSN/0306-4573>. Contributo registrato su profilo ORCID.
-  Springer Nature Scientific Report.
-  13th Italian Information Retrieval Workshop (IIR 2023), Pisa, Italy.
- 2022  Information Processing & Management.
-  Tenth AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2022), Online.
-  Conference and Labs of the Evaluation Forum (CLEF 2022), Bologna, Italy.
-  44th European Conference on Information Retrieval (ECIR 2022), Stavanger, Norway.
-  Second Symposium on Biases in Human Computation and Crowdsourcing (BHCC 2021), Delft, Netherlands (Online).

## Attività Accademica (continued)


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- 2021  30th ACM International Conference On Information And Knowledge Management (CIKM 2021), Online.
- 2020  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.

## Supervisione




- 2020 – 2023  **Co-supervisione** di 2 tesi magistrali, 11 tesi triennali e vari laboratori avanzati e seminari di studenti.

## Affiliazioni

- 2021 – In Corso  **Membro** del laboratorio SMDC (Social, Mobile, Data, Crowd), si veda <http://smdc.uniud.it/smdc/membri/?lang=en>

## Riconoscimenti

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- 2022  **Student Grant**, *15th ACM International Conference on Web Search and Data Mining (WSDM 2022)*, Phoenix, U.S.A. Tenutasi da remoto a causa dell'epidemia di COVID-19. Fornito da WSDM. Registrazione gratuita al convegno.
- 2020  **Student Grant**, *29th ACM International Conference On Information And Knowledge Management (CIKM 2020)*, Galway, Irlanda. Tenutasi da remoto a causa dell'epidemia di COVID-19. Fornito da CIKM. Registrazione gratuita al convegno.
- 2019  **Volontario**, *43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2020)*, Xi'an, Cina. Tenutasi da remoto a causa dell'epidemia di COVID-19. Fornito da SIGIR. Registrazione gratuita al convegno.

## Referenze

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Disponibili su richiesta

## Collegamenti

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

**Google Scholar:** <https://scholar.google.com/citations?user=ock0qRUAAAJ>

**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>

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

**Mendeley:** <https://www.mendeley.com/profiles/michael-soprano/>

*Autorizzo il trattamento dei miei dati personali ai sensi del GDPR 679/16 e del Decreto Legislativo 30 giugno 2003 n. 196  
"Codice in materia di protezione dei dati personali" ai fini di attività di ricerca e selezione del personale e contatti lavorativi.*

Ultimo aggiornamento: 22 Settembre 2023