

# CURRICULUM VITAE<sup>1</sup>

Simona Tiribelli

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## AREAS OF SPECIALIZATION AND INTEREST

AOS: Applied Ethics; AI and Digital Ethics; Ethics and Governance of Artificial Intelligence

AOI: Bioethics, Medical Ethics, Public Health Ethics; Theories of Justice

## Current Position

### **11/2024– Present**

*Tenure track Assistant Professor in Ethics*

Department of Political Science, Communication, and International Relations, University of Macerata Unimc), Macerata (MC) <https://www.unimc.it/it>

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Classes taught: *Ethics of Artificial Intelligence* (graduate); *Global Justice and Technology* (graduate); *Communication (Digital Media and Business) Ethics* (undergraduate); *Applied Ethics* (undergraduate); *Principles of Ethics and Technology of Artificial Intelligence* (undergraduate)

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Member of the PhD Faculty Board in Politics, Society, Technology

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Achievement of Scientific Habilitation as *Associate Professor of Ethics* issued by the Italian Ministry of Research and University (since 2023)

### **11/2021– Present**

*Director for AI and Technology Ethics*

Public Innovation Institute (prev. Institute for Technology and Global Health), Cambridge (MA)

AI and policy research and innovation center at PathCheck Foundation founded at the MIT Media Lab, Massachusetts Institute of Technology, Cambridge, MA, USA (<https://www.itgh.org/>).

### **07/2023– Present**

*Co-founder and Partner of GAIA srl – AI Ethics & Governance*

University spin-off of the University of Macerata (<https://gaia.srl/>).

## International Visiting Appointments

- **2023: Visiting Scholar (Faculty) in Ethics of Artificial Intelligence**  
NYU Center for Bioethics, NYU School of Global Public Health New York University, New York (NY), USA
- **2020: FULBRIGHT Fellow in Ethics of Artificial Intelligence**  
MIT Media Lab, MIT Center for Civic Media  
Massachusetts Institute of Technology, Cambridge (MA), USA
- **2019: Visiting PhD Researcher in Digital Ethics**

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<sup>1</sup> Short CV.

University Paris X, Paris, France

## **Previous Academic Positions**

**02/2022– 11/2024**

*Junior assistant professor in Ethics*

University of Macerata, Italy (The three-year contract was interrupted on 11/2024 upon the commencement of the tenure track contract). Research Project: ESAI-Ethics & Sustainable AI: Ethics and Sustainable Digital Solutions for the Health of Vulnerable People.

**12/2020 – 01/2022**

*Post-doc researcher in Ethics*

Department of Political Science, Communication, and International Relations, University of Macerata, Italy (*The two-year fellowship was interrupted on 31/01/2022 upon the commencement of the Junior Assistant Professorship in 2022*). Research Project: Ethics and New Technologies for the Prevention and Containment of the COVID-19 Epidemiological Emergency in the Marche Region.

## **Education**

**07/2021 European PhD Cum Laude in “Global Studies. Justice, Rights, Politics”**

Department of Political Science, Communication, and International Relations, University of Macerata, Italy; Award Date: 23/07/2021, Grade: **cum laude (with honors)**; Additional Title: Awarded with the title “**Doctor Europaeus**”. Thesis Title: *Moral Freedom. Free to Choose in the Algorithmic Era*

**11/2018 Diploma of Excellence in University Studies**

Giacomo Leopardi School of Higher University Studies, University of Macerata, Italy

**10/2017 Master’s Degree in Philosophical Sciences**

Department of Humanities, University of Macerata; Grade: 110/110 *cum laude (with honors)*

**10/2015 Bachelor’s Degree in Philosophy**

Department of Humanities, University of Macerata; Grade: 110/110 *cum laude (with honors)*

## **Language Skills**

- **English:** Excellent (C2) *Certificates:* Cambridge Certificate in Advanced English (CAE)
- **French:** Advanced (C1) *Certificate:* 2019 European OLS (C1)

## **Scientific Publications** (selected)

### **Books**

1. Tiribelli, S. (2023). *Identità personale e algoritmi. Una questione di filosofia morale*. Roma: Carocci Editore, 131 pages. ISBN: 978-88-290-1880-2
2. Tiribelli, S. (2022). *Moral Freedom in the Age of Artificial Intelligence*. Milan–London: Mimesis International, 145 pages. ISBN: 9788869774287

3. Tiribelli, S. (2025). *Explainable, Trustworthy, and Responsible AI and Multi-Agent Systems*. Switzerland: Springer Cham. ISBN: 978-3-032-01398-9 (with E. Calvaresi, Najjar, A., Omicini, A. et al.)

### **Articles in peer-reviewed journals**

4. Ilari, L., Tiribelli, S. & Caruso, F. (2026) “From AI security to ethical AI security: a comparative risk-mitigation framework for classical and hybrid AI governance”. *AI and Ethics* 6, 91 (2026). <https://doi.org/10.1007/s43681-025-00935-x>
5. Fiorentino, MC, Moccia, S., Di Cosmo, M, Frontoni, E., Giovanola, B., & Tiribelli, S. (2025), “Uncovering ethical biases in publicly available fetal ultrasound datasets”, *Nature Digital Medicine*, 8, 355 (2025).
6. Pansoni, S., Beck, E., & Tiribelli, S. (2025). *On the need of a decolonized AI ethics and governance framework for human–GenAI cooperation in the art sector: A roadmap*. In *Explainable, trustworthy, and responsible AI and multi-agent systems: 7th International Workshop, EXTRAAMAS 2025, Detroit, MI, USA, May 19–20, 2025* (pp. 191–210). Springer-Verlag. [https://doi.org/10.1007/978-3-032-01399-6\\_11](https://doi.org/10.1007/978-3-032-01399-6_11)
7. Tiribelli, S., & Coretti Sánchez, N., *The Ethics of Sustainability for Urban AI, in The Prism of Sustainability*. Multidisciplinary Profiles, Napoli, Editoriale Scientifica, 2025, pp. 389-414. ISBN: 979-12-2350-251-8
8. Tiribelli, S. (2025). “Epistemic injustice, AI, and moral challenges”. *The Future of Science and Ethics*, Fondazione Veronesi ETS, pp. 15–21. DOI: 10.53267/20240101
9. Tiribelli, Simona, *Toward Healthcare (Social) Justice: On the Value of Biases in Healthcare AI*, in *Ethics and Medical Technology: Philosophical Essays*, The International Library of Bioethics, Cham, Springer, 2025, pp. 59-76. ISBN 978-3-031-94689-9; 978-3-031-94690-5. DOI: <https://dx.doi.org/10.1038/s41746-025-01739-3>.
10. Tiribelli, S. (2025). “Artificial Intelligence and Moral Progress. A Missing Debate.” *Filosofia morale/Moral Philosophy*.
11. Calvaresi, D., Carli, R., Tiribelli, S., Buzcu, B., Aydogan, R., Di Vincenzo, A., Mualla, Y., Schumacher, M., Calbimonte, J.P. (2025). “Computational persuasion technologies, explainability, and ethical-legal implications: A systematic literature review.” *Computers in Human Behavior Reports*, Article 100151. DOI: <https://doi.org/10.1016/j.chbr.2024.100577>
12. Tiribelli, S. (2024). “Libertà morale e intelligenza artificiale.” *Etica & politica. Rivista di filosofia / Ethics & Politics*, Edizioni Università di Trieste, Volume XXVI, Issue 3, pp. 87–102. (ISSN: 1825-5167)
13. Tiribelli, Simona, *Tecnologie algoritmiche, ragionamento sociale e progresso morale*, in *Il progresso morale. Sfide, opportunità e prospettive future*, Roma, Inschibboleth Edizioni, 2025, pp.755-772. ISBN 978-88-5529-590-1

14. Tiribelli, S., & Calvaresi, D. (2024). "Rethinking Health Recommender Systems for ActiveAging: An Autonomy-Based Ethical Analysis." *Science and Engineering Ethics*, 30(22), pp. 1–24. (ISSN: 1471-5546). DOI: 10.1007/s11948-024-00479-z
15. Tiribelli, S., Pansoni, S., Frontoni, E., & Giovanola, B. (2024). "Ethics of Artificial Intelligence for Cultural Heritage: Opportunities and Challenges." *IEEE Transactions on Technology and Society*, 5(3), pp. 293–305, September 2024. DOI: 10.1109/TTS.2024.3432407
16. Tiribelli, S., Giovanola, B., Pietrini, R., Frontoni, E., & Paolanti, M. (2024). "Embedding AI ethics into the design and use of computer vision technology for consumer's behavior understanding." *Computer Vision and Image Understanding*, 248, Article 104142. DOI: <https://doi.org/10.1016/j.cviu.2024.104142>
17. Shah, S. F. H., Arecco, D., Draper, H., Tiribelli, S., Harriss, E., Matin, R. N. (2024). "Ethical implications of artificial intelligence in skin cancer diagnostics: use-case analyses." *British Journal of Dermatology*, Oxford University Press, 190(6), pp. 789–797. (ISSN: 0007-0963). DOI: 10.1093/bjd/ljae434
18. Stacchio, L., Balloni, E., Gorgoglione, L., Mancini, A., Giovanola, B., Tiribelli, S., & Zingaretti, P. (2024). "An ethical framework for trustworthy Neural Rendering applied in cultural heritage and creative industries." *Frontiers in Computer Science*, 6, Article 1459807. DOI: 10.3389/fcomp.2024.1459807
19. Paolanti, M., Tiribelli, S., Giovanola, B., Mancini, A., Frontoni, E., & Pierdicca, R. (2024). "Ethical Framework to Assess and Quantify the Trustworthiness of Artificial Intelligence Techniques: Application Case in Remote Sensing." *Remote Sensing*, 16, Article 4529. DOI: 10.3390/rs16234529
20. Mhlambi, S., & Tiribelli, S. (2023). "Decolonizing AI Ethics: Relational Autonomy as a Means to Counter AI Harms." *Topoi*, 42, pp. 867–880, 1–14. DOI: 10.1007/s11245-022-09874-2
21. Migliorelli, L., Tiribelli, S., Cacciatore, A., Giovanola, B., Frontoni, E., & Moccia, S. (2023). "Accountable Deep-Learning-Based Vision Systems for Preterm Infant Monitoring." *Computer*, 56(5), pp. 84–93. (ISSN: 0018-9162). DOI: 10.1109/MC.2023.3235987
22. Tiribelli, S. (2023). "Inequalities and Artificial Intelligence." *Filosofia Morale/Moral Philosophy*, Issue 3, pp. 187–198. DOI: 10.7413/fmmp0032
23. Tiribelli, S., Monnot, A., Shah, S. F. H., Arora, A., Toong, P. J., & Kong, S. (2023). "Ethics Principles for Artificial Intelligence-Based Telemedicine for Public Health." *American Journal of Public Health*, 113(5), pp. e1–e8. DOI: 10.2105/AJPH.2023.307225
24. Pansoni, S., Tiribelli, S., Paolanti, M., Di Stefano, F., Frontoni, E., Malinverni, E. S., & Giovanola, B. (2023). "Artificial Intelligence and Cultural Heritage: Design and Assessment of an Ethical Framework." *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 46, pp. 1149–1155. DOI: 10.5194/isprs-archives-XLVIII-M-2-2023-1149-2023

25. Tiribelli, S. (2023). "The AI Ethics Principle of Autonomy in Health Recommender Systems." *Argumenta*, 16, pp. 1–18. DOI: 10.14275/2465-2334/20230.TIR
26. Giovanola, B., Tiribelli, S., Frontoni, E., & Paolanti, M. (2023). "Ethical Implications of Artificial Intelligence in the Fashion Industry: A Comprehensive Analysis." *Fashion Highlight*, Issue 2, pp. 22–28. DOI: 10.36253/fh-2497
27. Giovanola, B., & Tiribelli, S. (2022). "Beyond Bias and Discrimination: Redefining the AI Ethics Principle of Fairness in Healthcare Machine-Learning Algorithms." *AI & Society*, 38, pp. 549–563. DOI: 10.1007/s00146-022-01455-6
28. Tiribelli, S. (2022). "Oltre la privacy informazionale: Libertà di scelta e di identità nell'era della profilazione algoritmica." *Itinerari*, 61(2), pp. 161–194.
29. Giovanola, B., & Tiribelli, S. (2022). "Weapons of Moral Construction? On the Value of Fairness in Algorithmic Decision-Making." *Ethics and Information Technology*, 24(3), pp. 1–13. DOI: 10.1007/s10676-022-09622-5
30. Riva, G., & Tiribelli, S. (2022). "Moral and Legal Autonomy in the Era of Artificial Intelligence." *S&F ScienzaeFilosofia.it*, 28, pp. 166–202.
31. Giovanola, B., & Tiribelli, S. (2022). "Equità e decisioni algoritmiche". *Teoria*, 42, pp. 117–130. DOI: 10.4454/teoria.v42i2.160
32. Tiribelli, S. (2022). "Artificial Agency and Moral Agency: Conceptualizing the Relationship and its Ethical Implications on Moral Identity Formation." *S&F ScienzaeFilosofia.it*, 27, pp. 54–68.
33. Tiribelli, S. (2021). "Debating Buchanan's Our Moral Fate: Why Exercising Moral Reasoning Cannot Be a Luxury Good." *Jus Cogens*, 3, pp. 59–71. DOI: 10.1007/s42439-021-00039-0

### **Peer-reviewed book chapters**

34. Tiribelli, Simona (2025), *Toward Healthcare (Social) Justice: On the Value of Biases in Healthcare AI*, in *Ethics and Medical Technology: Philosophical Essays*, The International Library of Bioethics, Cham, Springer, 2025, pp. 59-76. ISBN 978-3-031-94689-9; 978-3-031-94690-5. DOI: <https://dx.doi.org/10.1038/s41746-025-01739-3>.
35. Tiribelli, S., & Coretti, N. (2025). "The Ethics of Sustainability in Urban AI." In A. Bartolacelli (Ed.), *The Prism of Sustainability: Multidisciplinary Profiles: Law, Economics, and Ethics*. Editoriale Scientifica, Naples.
36. Tiribelli, Simona, *Tecnologie algoritmiche, ragionamento sociale e progresso morale*, in *Il progresso morale. Sfide, opportunità e prospettive future*, Roma, Inschibboleth Edizioni, 2025, pp.755-772. ISBN 978-88-5529-590-1.
37. Tiribelli, S. (2024). "Who Decides What Online and Beyond: Freedom of Choice in Predictive Machine-Learning Algorithms." In J. Casas-Roma, S. Caballe, & J. Conesa (Eds.), *Ethics in*

*Online AI-Based Systems* (pp. 299–321). Elsevier. (ISBN: 9780443188510)

38. Stacchio, L., Pierdicca, R., Paolanti, M., Zingaretti, P., Frontoni, E., Giovanola, B., & Tiribelli, S. (2024). “XRAI-Ethics: Towards a Robust Ethical Analysis Framework for Extended Artificial Intelligence.” In *2024 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)*, pp. 214–219. IEEE Computer Society. DOI: 10.1109/ISMAR-Adjunct64951.2024.00052
39. Petrocchi, E., Tiribelli, S., Paolanti, M., Giovanola, B., Frontoni, E., & Pierdicca, R. (2024). “GeomEthics: Ethical Considerations About Using Artificial Intelligence in Geomatics.” In *Image Analysis and Processing – ICIAP 2023 Workshops* (Vol. III, pp. 282–293). Springer Cham. (ISBN: 978-3-031-51026-7)
40. Tiribelli, S. (2024). “Autonomia relazionale e intelligenza artificiale.” In O. Tolone & M. Anzalone (Eds.), *Etiche applicate e nuovi soggetti morali* (pp. 413–419). Orthotes Editrice. (ISBN: 978-88-9314-432-2)
41. Tiribelli, S. (2023). “Intelligenza artificiale e progresso morale.” In S. Dadà, A. Fabris, & V. Neri (Eds.), *Etica, conoscenza, spazio pubblico* (Vol. IX, pp. 209–219). Orthotes Editrice. (ISBN: 9788846765529)
42. Pansoni, S., Tiribelli, S., Paolanti, M., Frontoni, E., & Giovanola, B. (2023). “Design of an Ethical Framework for Artificial Intelligence in Cultural Heritage.” In *2023 IEEE International Symposium on Ethics in Engineering, Science, and Technology (ETHICS)* (pp. 1–5). IEEE. (ISBN: 978-1-6654-5713-2).
43. Giovanola, B., & Tiribelli, S. (2023). “Giustizia sociale e progresso morale.” In F. Palmieri & B.M. Ventura (Eds.), *Etica, economia, ecologia. Sguardi sulla complessità* (pp. 101–116). Edizioni ETS. (ISBN: 9788846765529)
44. Tiribelli, S. (2023). “La dimensione etica e politica dell’algoritmo.” In A. Sterpa (Ed.), *L’ordine giuridico dell’algoritmo* (pp. 33–47). Editoriale Scientifica. (ISBN: 979-12-5976-844-5)
45. Cacciatore, A., Migliorelli, L., Berardini, D., Tiribelli, S., Pigliapoco, S., & Moccia, S. (2022). “Some Ethical Remarks on Deep Learning-Based Movements Monitoring for Preterm Infants: Green AI or Red AI?” In P. L. Mazzeo, E. Frontoni, S. Sclaroff, & C. Distanto (Eds.), *Image Analysis and Processing* (Vol. 2, pp. 165–175). Springer Cham. (ISBN: 978-3-031-13324-4)
46. Tiribelli, S. (2020). “Predeterminazione algoritmica e libertà di scelta.” In L. Alici & F. Miano (Eds.), *L’etica nel futuro* (Vol. V, pp. 431–441). Orthotes Editrice. (ISBN: 978-88-9314-247-2)
47. Tiribelli, S. (2019). “Nuovi media e bellezza: la narrazione estetica del sé tra potenziamento e falsificazione.” In S. Achella & F. Miano (Eds.), *Etica e bellezza* (Vol. III, pp. 263–272). Orthotes. (ISBN: 978-88-9314-192-5)