

Giulia Raffaella De Luca

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Born: February 20, 1998—Napoli (NA), Italy
Nationality: Italian

Current position

PhD Student, Health and Technology PhD Programme, University of Bologna, Italy
Since November 1, 2024 (Expected completion: October 2026)
Research project: "A deep clustering framework for personalized, post-test risk prediction in lung cancer screening"

Areas of specialisation

Biomedical Engineering; Artificial Intelligence; Big Data; Lung Cancer Screening; Diagnostic Support Systems

Appointments held

- 2023 Post-graduate research scholarship, "Archive of CT Images and Evaluation of Diagnostic Support Systems for Lung Cancer Screening"
University of Bologna, Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi"
Supervisor: Prof. Stefano Diciotti.

Education

- 2023 Master's degree in Biomedical Engineering - Innovative Technologies in Diagnostics and Therapy, Alma Mater Studiorum, University of Bologna
Thesis: "Patient Stratification in Lung Cancer Screening using SmileGAN"
Supervisor: Prof. Stefano Diciotti

- 2020 Bachelor's degree in Biomedical Engineering,
Alma Mater Studiorum, University of Bologna
Thesis: Dosimetry and Radioprotection: Innovations introduced by Directive 2013/59/EURATOM and its implementation in Italy
Supervisor: Prof. Cristiana Corsi

Post-Graduate Education

- 2024 University of Pavia, 19-23/02/2024
Data-Driven Healthcare Transformation Winter School.
- 2023 Cambridge Centre for AI in Medicine, University of Cambridge, 11-15/09/2023
AI and Machine Learning for Healthcare Summer School.

Publications & talks

JOURNAL ARTICLES

- 2024 De Luca, G. R., Diciotti, S., Mascalchi, M. (2024). "The pivotal role of baseline LDCT for lung cancer screening in the era of artificial intelligence." *Archivos de Bronconeumología*. DOI: [10.1016/j.arbres.2024.11.001](https://doi.org/10.1016/j.arbres.2024.11.001).
- 2024 Mascalchi, M., Cavigli, E., Picozzi, G., Cozzi, D., De Luca, G. R., Diciotti, S. (2024). "The Azygos Esophageal Recess Is Not to Be Missed in Screening Lung Cancer With LDCT." *Journal of Thoracic Imaging*. DOI: [10.1097/RTH.0000000000000813](https://doi.org/10.1097/RTH.0000000000000813).
- 2024 Mascalchi, M., Puliti, D., Cavigli, E., Cortés-Ibáñez, F. O., Picozzi, G., Carrozzi, L., Gorini, G., Delorme, S., Zompatori, M., De Luca, G. R., Diciotti, S., Comin, C. E., Ali, G., Kaaks, R. (2024). "Large cell carcinoma of the lung: LDCT features and survival in screen-detected cases." *European Journal of Radiology*, 179. DOI: [10.1016/j.ejrad.2024.111679](https://doi.org/10.1016/j.ejrad.2024.111679).

Conferences and Seminars

- 2024 RDA-VP24, Plenary Session: "Data for AI – Impact, Reproducibility Trust" (Title: "Beyond the Algorithm: Data's Role for Trustworthy AI in Healthcare" - Author: Giulia Raffaella De Luca; Moderator: Lee Wilson) URL: [Session available here \(Youtube\)](#)
- 2024 RDA (online), "AI in Action: How Researchers Leverage AI" (Title: "Health data for AI: insights from a PhD's logbook" – Author: Giulia Raffaella De Luca; Moderator: Shalini Kurapathy). URL: [Session available here \(Youtube\)](#)
- 2024 Bologna, 23/02/2024: "Extending BIDS to lung CT imaging: right here, right now" (Authors: Giulia Raffaella De Luca, Armand Viole, Stefano Diciotti) - Annual ITRN Meeting, 3rd edition.

Languages

- 2023 IELTS Certification: 7.5 (C1 level)

Service to the profession

- 2025-present Member, Minerva – Scientific Dissemination Association, giving talks about AI's opportunities in everyday life and medicine. YouTube playlist available URL: [here \(in italian\)](#)

Last updated: April 16, 2025