

Luigi De Angelis, MD MPH

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Scopus

Education

- 2024-2025 **Harvard Th Chan School of Public Health**, *Boston, USA*, Master in Public Health (MPH45 Quantitative Methods)
- 2024-2025 **Massachusetts Institute of Technology (MIT)**, *Boston, USA*, Cross-registration: HST953 Collaborative Data Science for Healthcare, HST.956: Machine Learning for Healthcare, MAS.664: AI Venture Studio, HST.978: Healthcare Ventures
- 2016-2022 **University of Rome Tor Vergata**, *Rome, Italy*, Doctor of Medicine (With Honors) [Cumulative GPA: 4.00]
- 2020-2021 **National Center of Research (CNR)**, *Rome, Italy*, Master at the Advanced School in Artificial Intelligence (AS-AI)

Work Experience and Internships

- 2022-ongoing **University of Pisa**, *Pisa, Italy*, Medical residency in Hygiene and Preventive Medicine, Supervisor: Prof. Caterina Rizzo
- Conducted data analysis for epidemiological studies using R.
 - Contributed to teaching activities for medical students within the course "Hygiene and Public Health" at the University of Pisa.
 - Collaborated in a multidisciplinary team to develop an AI model for infection surveillance.
 - Conceived and wrote multiple research papers, including original articles, viewpoints, and systematic reviews.
 - Participated in a European project on vaccine hesitancy (Co-OPERATOR).
 - Supported infection control activities for hospital-acquired infection prevention within the "Azienda Ospedaliera Universitaria Pisana" hospital.
- 2023-2024 **National Institute of Health (ISS)**, *Rome, Italy*, Residency Internship in Epidemiology of Infectious Diseases, Supervisor: Dr. Alberto-Mateo Urdiales
- Conducted data analysis on large-scale epidemiological data using R and Phyton.
 - Led a study on the effect of climatic variables on West Nile Virus incidence using advanced statistical methods (Case time series design, Distributed Lag Non-Linear Models).
 - Conducted pre-processing, visualization, and analysis of data on all the accesses to Emergency Departments for Severe Acute Respiratory Infections (time series with around 60 million records).
- 2025-ongoing **HumanTruths**, *Remote, Part-time*, Co-founder and Chief Research Officer (CRO)
- Grant writing and submission to Gates Foundation
 - Development of AI voice agents for data collection and analysis

- 2021-2022 **Bambino Gesù Children's Hospital (OPBG), Rome, Italy**, Student Internship, Supervisor: Dr. Alberto Eugenio Tozzi
- Conducted a systematic review of randomized control trials involving digital interventions for pediatric patients with oncological diseases. (*unpublished*)
 - Supported educational activities on the topic of AI, within the program of the International Society of Pediatric Innovation (iSPI).
 - Participated in a European project on innovation in pediatric cancer (EU4CHILD).
 - Participated in the activities of the Pediatric Centers of AI in Medicine (PCAIM) on behalf of the OPBG.
- 2019-2022 **University of Rome Tor Vergata, Rome, Italy**, Undergraduate Research Internship, Supervisor: Prof. Leonardo Palombi
- Created multiple questionnaires in a digital format, with automatic field calculations, to collect data for a cross-sectional study on cancer survivors.
 - Conducted data analysis using SPSS for my thesis project.
 - Completed and published my thesis project: *Hospital Acquired Infections: risk factor analysis using statistical methods and innovative artificial intelligence tools*.

Awards

- 2024 **Fulbright Scholarship**, *The U.S. – Italy Fulbright Commission*
- 2024 **Ermenegildo Zegna Founder's Scholarship**, *Fondazione Zegna*
- 2023 **Winner of the abstract competition at AIMED global summit 2023**, *San Diego, California, USA*
- 2025 **Winner of the Harvard Health System Innovation Lab global Hackathon**, competing with 100+ teams across 19 hubs around the world, *Boston, USA*

Language skills

Italian	Native Language	
English	C1	<i>IELTS 8</i>
French	A1	<i>DELTA A1</i>

Computer skills

Office	advanced
R	advanced
REDCap	intermediate
Replit	intermediate
RetellAI	intermediate
Python	basic
STATA	basic
SPSS	basic

Formative Experience

- 2021 **Fundamentals of Machine Learning for Healthcare**, *Coursera, Stanford Online*
- 2021 **AI for Medical Diagnosis**, *Coursera, Deeplearning.ai*

- 2021 **Participation at Data 4 Healthy Recovery Hackathon**, *European Commission*
- 2021 **American Board of Artificial Intelligence in Medicine (ABAIM) Educational Certification**
- 2022 **Linear regression in R for Public Health**, *Coursera, Imperial College London*
- 2023 **AI and Machine Learning in Healthcare Summer School**, *Cambridge Center for AI in Medicine (CCAIM)*

Conference Participation

- May 2022 **AI MED Global summit**, *San Francisco, California, USA*, Attendee
- Mar 2023 **International Consensus Assembly on Telemedicine**, *Bologna, Italy*, Attendee
- Apr 2023 **XLVII Convegno Associazione Italiana Epidemiologia**, *Pisa, Italy*, Attendee
- May 2023 **17th World Congress on Public Health**, *Rome, Italy*, Poster Presentation
- Jun 2023 **AI MED Global summit**, *San Diego, California, USA*, Oral Communication, Award Winning
- Oct 2023 **SIItI 2023, Conferenza Nazionale di Sanità Pubblica Straordinaria (Italian Society of Hygiene and Public Health)**, *Cernobbio, Italy*, Poster Presentation
- Nov 2023 **16th European Public Health Conference**, *Dublin, Ireland*, Poster Presentation
- Nov 2023 **XLVIII Convegno Associazione Italiana Epidemiologia**, *Rome, Italy*, Keynote Presentation

Professional Affiliations

- 2019–2021 **Vice-president of Student's Union "MedStudents"**, *University of Rome Tor Vergata*
- 2022–current **Member, Order of Physicians of Rome**, *Registration Num. 688897*
- 2022–current **Member, The European Public Health Association (EUPHA)**
- 2023–current **Coordinator of the Artificial Intelligence in Public Health working group**, *Resident Section of the Italian Society of Hygiene and Public Health (SIItI)*
- 2023–current **Member, Italian Association of Epidemiology (AIE)**
- 2023–current **President, Italian Society of Artificial Intelligence in Medicine (SIIAM)**

Publication List

Frontiers in Public Health, **L. De Angelis**, F. Baglivo, G. Arzilli, G. P. Privitera, P. Ferragina, A. E. Tozzi, C. Rizzo, *ChatGPT and the Rise of Large Language Models: The New AI-Driven Infodemic Threat in Public Health*, *Front. Public Health*, 25 April 2023, Sec. Digital Public Health, Volume 11 – 2023., <https://doi.org/10.3389/fpubh.2023.1166120>

Environmental Research, **L. De Angelis**, Angela Ancona, Giovenale Moirano, Aurea Oradini-Alacreu, Antonino Bella, et al., *Case-time series study on the short-term impact of meteorological factors on West Nile Virus incidence in Italy at the local administrative unit level, 2012 to 2021*, *Environmental Research*, <https://doi.org/10.1016/j.envres.2024.120320>

JMIR Medical Education, F. Baglivo, **L. De Angelis**, V. Casigliani, G. Arzilli, G. P. Privitera, C. Rizzo, *Exploring the possible use of AI Chatbots in Public Health Education: A Feasibility Study*, *JMIR Medical Education*., <https://doi.org/10.2196/51421>

- Frontiers in Global Women's Health**, V. Moschese, **L. De Angelis**, M. V. Capogna, S. Graziani, F. Baglivo, A. Pietropolli, M. Miraglia Del Giudice, C. Rizzo and SIAIP Vaccine Committee, *Vaccine hesitancy and knowledge regarding maternal immunization among reproductive age women in central Italy: a cross-sectional study*, *Front. Glob. Women's Health*, 14 September 2023 Sec. Maternal Health, Volume 4 - 2023., <https://doi.org/10.3389/fgwh.2023.1237064>
- PloS One**, M. Carestia, M. Andreoni, E. Buonomo, F. Ciccacci, **L. De Angelis**, G. De Carolis, P. De Filippis, D. Di Giovanni, L. Emberti Gialloreti, C. Fontana, L. Guarente, A. Magrini, M. Mattei, S. Moramarco, L. Morciano, C. Mosconi, S. Orlando, G. Quintavalle, F. Riccardi, V. Santoro, ... L. Palombi, *A novel, integrated approach for understanding and investigating Healthcare Associated Infections: A risk factors constellation analysis*, *PloS One*, 18(3), e0282019., <https://doi.org/10.1371/journal.pone.0282019>
- Pathogens**, E. De Vita, **L. De Angelis**, G. Arzilli, F. Baglivo, S. Barnini, A. Vecchione, A. Baggiani, C. Rizzo, A. D. Porretta, Team AID, *Investigating AMR Factors in Enterobacterales: A Descriptive Epidemiological Study of 2021 screening in an Italian Teaching Hospital*, *Pathogens* 2023, 12, 1140., <https://doi.org/10.3390/pathogens12091140>
- Vaccine (Elsevier)**, F. Baglivo, M. Magrì, **L. De Angelis**, V. Aprile, M. Minelli, R. Stifini, P. L. Lopalco, C. Rizzo, A. Fedele, *Performance comparison between heterologous and homologous COVID19 vaccine schedules on Omicron variant incidence: a real-world retrospective cohort study in Southern Italy*, *Vaccine*, Volume 41, Issue 39, 2023, Pages 5687-5695, ISSN 0264-410X., <https://doi.org/10.1016/j.vaccine.2023.07.055>
- Population Medicine**, F. Baglivo, **L. De Angelis**, V. Aprile, R. Stifini, M. Magrì, P. Lopalco, C. Rizzo, A. Fedele, *Exploring waning COVID19 Vaccine Effectiveness against reinfections in the pediatric population: A Retrospective Population Analysis*, *Population Medicine*. 2023;5(Supplement):A2005.(conference abstract), <https://doi.org/10.18332/popmed/163664>
- Population Medicine**, **L. De Angelis**, F. Baglivo, M. Magrì, I. De Nicola, P. Lopalco, C. Rizzo, A. Fedele, *Pediatric COVID19 vaccine hesitancy based on parents' attitudes towards mandatory and recommended vaccination in Southern Italy*, *Population Medicine*. 2023;5(Supplement):A2002.(conference abstract), <https://doi.org/10.18332/popmed/165681>
- Population Medicine**, D. Rocchi, A. Berionni, **L. De Angelis**, F. Baglivo, A. Causio, A. Ancona, V. Corona, V. Casigliani, M. Caminiti, C. Rizzo, *Artificial Intelligence for social media monitoring of attitudes towards COVID-19 vaccination: a scoping review*, *Population Medicine*. 2023;5(Supplement):A605.(conference abstract), <https://doi.org/10.18332/popmed/164156>
- BMC Infectious Diseases**, E. Pandolfi, D. Loconsole, M. Chironna, J. van Summeren, J. Paget, M. Raponi, L. Russo, I. Campagna, I. Croci, C. Concato, C. F. Perno, A. E. Tozzi, G. Linardos, V. Bartolucci, S. Ciampini, A. O. Muda, **L. De Angelis**, M. L. Ciofi Degli Atti, C. Rizzo, *Pre-COVID-19-pandemic RSV epidemiology and clinical burden in pediatric primary care in Italy: a comparative analysis across two regions for the 2019/2020 season*, *BMC Infectious Diseases* 2024, 24, 388., <https://doi.org/10.1186/s12879-024-09229-9>

Influenza and Other Respiratory Viruses, M. Scarpaci, S. Bracaloni, E. Esposito, **L. De Angelis**, F. Baglivo, B. Casini, D. Panatto, M. Ogliastro, D. Loconsole, M. Chironna, E. Pariani, L. Pellegrinelli, E. Pandolfi, I. Croci, C. Rizzo, & RSVComNet Italia, *RSV Disease Burden in Primary Care in Italy: A Multi-Region Pediatric Study, Winter Season 2022-2023*, Influenza and Other Respiratory Viruses 2024, 18, e13282., <https://doi.org/10.1111/irv.13282>

Vaccine, F. Baglivo, **L. De Angelis**, M. Magrì, I. De Nicola, E. De Vita, P. L. Lopalco, C. Rizzo, & A. Fedele, *The impact of COVID-19 vaccination campaign on pediatric vaccine uptake based on parents' attitudes towards mandatory and recommended vaccination in Southern Italy*, Vaccine 2024, Advance online publication., <https://doi.org/10.1016/j.vaccine.2024.04.072>

Journal of Travel Medicine, F. Baglivo, **L. De Angelis**, G. Cruschelli, C. Rizzo, *A decalogue for personalized travel health assistance with AI-driven chatbots*, Journal of Travel Medicine 2024, taae026., <https://doi.org/10.1093/jtm/taae026>

Frontiers in Digital Health, G. Morone, **L. De Angelis**, A. Martino Cinnera, R. Carbonetti, A. Bisirri, I. Ciancarelli, M. Iosa, S. Negrini, C. Kiekens, F. Negrini, *Artificial intelligence in clinical medicine: a state-of-the-art overview of systematic reviews with methodological recommendations for improved reporting*, Frontiers in Digital Health 2025, Volume 7, <https://doi.org/10.3389/fdgth.2025.1550731>

Vaccine, E.A. Fotakis, E. Picasso, C. Sacco, D. Petrone, M. Del Manso, A. Bella, F. Riccardo, A. Odone, A. Cannone, M. Tallon, **L. De Angelis**, A. Sciurti, D. Cescutti, P. Pezzotti, M. Fabiani, & A. Mateo-Urdiales, *Impact of the 2023/24 autumn-winter COVID-19 seasonal booster campaign in preventing severe COVID-19 cases in Italy (October 2023–March 2024)*, Vaccine 2024, 42(26), art. no. 126375, <https://doi.org/10.1016/j.vaccine.2024.126375>

BMC Public Health, A. Mateo-Urdiales, M. Fabiani, F. Mayer, C. Sacco, V. Belleudi, R. Da Cas, E.A. Fotakis, **L. De Angelis**, M. Cutillo, D. Petrone, C. Morciano, A. Cannone, M. Del Manso, F. Riccardo, A. Bella, F. Menniti-Ippolito, P. Pezzotti, S. Spila Alegiani, & M. Massari, *Risk of breakthrough infection and hospitalisation after COVID-19 primary vaccination by HIV status in four Italian regions during 2021*, BMC Public Health 2024, 24(1), art. no. 1569, <https://doi.org/10.1186/s12889-024-19071-y>

JMIR Research Protocols, F. Baglivo, **L. De Angelis**, F. Vannini, A. Agostini, A. Todaro, E. Torri, G. A. G. Lopez, M. Fui, A. Tomasi, & C. Rizzo, *Italian Medical Professionals' Practices, Attitudes, and Knowledge in Travel Medicine: Protocol for a National Survey*, JMIR Research Protocols 2025, 14, art. no. e59511, <https://doi.org/10.2196/59511>