Francesco Andrea Causio

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Research Interests: Health Systems Design · Machine Learning Systems Design · Agentic Workflows · Digital Health · Personalized Medicine

Education and Training

Master of Applied Science in Computer Science *Aug 2025 – Current*
University of Pennsylvania, Philadelphia, PA

- GPA: 3.96
- Vice President at Claude Builder Club (funded by Anthropic): produced two research papers, investigating the adoption of AI among students and evaluating AI for peer-reviewing tasks in conference venues, mentoring undergraduate students under the supervision of Prof. Chris Callison-Burch.
- Venture Incubation Program at Penn Venture Lab: developed Monolith, an AI-native peer-reviewed journal that was awarded the Wharton Innovation Fund Design Award.
- Finalist at Claude Builder Club Hackathon, developing a multi-agent system for academic manuscript peer-review
- Penn's Widjaja Engineering Entrepreneurship Fellow (Penn Engineering announcement, 2026 cohort): one of 12 selected among 100 for a work-study program in technology venture leadership
- Representative for the Master of Applied Science in Computer Science program to the Dean on the Master's Advisory Board (MAB), representing a cohort of 200+ students on a broad range of academic and non-academic issues, including but not limited to curriculum planning, internship placement, and immigration policy.
- Concepts & Languages: Machine Learning, Natural Language Processing, Software Development, OOP, Data Structures & Algorithms, Python, TypeScript

Ph.D. in Basic Biomedical Sciences and Public Health *Nov 2023 – Oct 2026*
Università Cattolica del Sacro Cuore, Rome, Italy

- Co-led a real-world feasibility study integrating polygenic risk scores (PRS) into breast cancer risk stratification: women attending a Medical Genetics Clinic undergo CanRisk multifactorial lifetime-risk assessment, computed with and without PRS, and are re-stratified into population-, moderate-, and high-risk groups; validated questionnaires to patients and clinicians assess feasibility, acceptability, organizational factors, and patients' perception, alongside PRS uptake, emotional response, risk reclassification, and impact on preventive recommendations (BMJ Open, DOI 10.1136/bmjopen-2026-121783; protocol preprint: OSF; preliminary findings as first author: Causio et al., Eur J Public Health 2025).
- Developed and evaluated (CatBoost machine learning models predicting disease-free survival, overall survival, and cause of death in 370 bladder cancer patients undergoing radical cystectomy at Policlinico Gemelli (Rome), reaching a mean absolute error of 18.7 months for disease-free survival and 14.6 months for overall survival, with clinical and pathological tumor staging and the systemic immune-inflammation index as the leading predictors; the work won the 2025 JMIR Publications Early Career Researcher Award.
- Mentored by Stefania Boccia, among the top 2% researchers on Stanford University's list of the world's most-cited scientists (Ioannidis et al., 2026).

Master's Degree in Epidemiology and Biostatistics *Mar 2023 – Oct 2023*
Università Cattolica del Sacro Cuore, Rome, Italy

- Graduated top of class with GPA 30/30 with honors
- Scholarship from the IC2PerMed Consortium due to outstanding research achievements in my residency program.

- Defended a thesis analyzing a 6,581-person sample to identify attitudes towards digital health and data sharing

Community Hospital Medical Direction - Graduate Course *Mar 2022 – Nov 2022*
Università Cattolica del Sacro Cuore, Rome, Italy

Leadership in Medicine - Graduate Course *Feb 2020 – Nov 2020*
Università Cattolica del Sacro Cuore Education on leadership practices with a peculiar focus on the field of medicine: public speaking, smart leadership and medical pathway analysis

Doctor of Medicine (M.D.) *Oct 2013 – Jul 2019*
Università Cattolica del Sacro Cuore, Rome, Italy
- Graduated with honours (110/110 cum laude), defending a thesis on policy recommendations for HPV vaccination in teenagers and young adults (Public Health and Preventive Medicine)
- Completed the fifth year of medical school at Charité Universitätsmedizin Berlin on an Erasmus+ scholarship, attending classes and clinical rotations, including working as as a *Famulantarzt* (working student) in internal medicine at DRK Kliniken Mitte, Berlin.
- EQF level 6

Work Experience

Teaching Assistant *Aug 2026 – Present*
University of Pennsylvania Philadelphia, PA

- Led problem sets, grading, and recitations for Dr. Nan Zheng (Mathematical Foundations of Computer Science, CIT 5920 – 80+ students) and Prof. Jeffrey Babin (Engineering Entrepreneurship I, EAS 5450 – 150+ students).

Software Engineer *May 18, 2026 – Aug 21, 2026*
Superscript, New York City, NY

- Architected an explainability platform to surface algorithmic decision rationale and support human-in-the-loop oversight of model-driven outputs
- Designed and deployed agentic AI workflows to parallelize reactive changes across the codebase, accelerating iteration cycles and reducing bottlenecks
- Bridged technical knowledge gaps across engineering pods, enabling cross-functional alignment and more consistent coding standards
- Contributions collectively drove up to 15% improvement in model accuracy and up to 98% reduction in data drops across existing issues in the codebase and database

Community Health Educator *Oct 2025 – Dec 2025*
University of Pennsylvania Philadelphia, PA

- Designed and led interactive nutrition and preventive health workshops for high school students at William L. Sayre High School in West Philadelphia.

Tech Consultant *Mar 2025 – Jul 2025*
Fondazione ENI Enrico Mattei, Rome, Italy
- Designed and integrated a Python-powered RAG chatbot into an existing health app to improve adherence to healthy lifestyles
- First pilot: 60% increase in user comprehension and a 95% favorable user opinion rating

Researcher *Mar 2023 – Jul 2025*
Brand-New Health Foundation, Rome, Italy
- Representative in the WHO Strategic Partners' Initiative for Data and Digital Health (SPI-DDH). Collaborated on a WHO internal report on domestic remote patient monitoring in Euro-53 health systems, finding significant inequalities among member countries.
- Collaborated with the Italian Association of Primary Care Physicians (PCPs) on a study assessing the impact of the primary care DM 77/2022 reform, finding most PCPs favored digitalization but called for more involvement in decision-making.

Board Member, Researcher *Oct 2024 – Jul 2025*
MedNTech, Washington DC, United States
- Applied AI startup working on a CNN algorithm improving early cervical cancer diagnosis in Low and Middle Income Countries (LMICs). Won a $50,000 grant application for developing on-site implementation studies in Rwanda.

Resident Medical Officer in Hygiene and Preventive Medicine *Jan 2021 – Jan 2025*
Università Cattolica del Sacro Cuore & Fondazione Policlinico Gemelli, Rome, Italy
- Graduated with honors (50/50 *cum laude*) defending a thesis on policymaking in personalized medicine.
- Mentored by Stefania Boccia and Walter Ricciardi, both among the top 2% researchers on Stanford University's list of the world's most-cited scientists.
- Contributed to ALTEMS Instant Report 36, monitoring COVID-19 testing strategies and public-health policies across Italian public health systems, under the supervision of Carlo Favaretti, a founding member of the World Health Organization's Health Promoting Hospitals initiative.
- In-hospital activities at Fondazione Policlinico Gemelli (medical direction: information flow tracking and adoption of digitized medical record); Ospedale Fatebenefratelli Isola Tiberina - Gemelli Isola (hospital management: alignment with European standards for data creation, labeling, and exchange; hospital procedures for urgent care and emergency)
- Served as Chief Resident, overseeing research coordination and resident mentorship; founded the Buddy Program to pair incoming junior residents with senior peers to accelerate professional integration, leadership development, and research opportunities.

Medical Doctor *May 2022 – Jul 2025*
Nuova Clinica Annunziatella, Rome, Italy
- Palliative care for terminally ill patients. Emotional support and care for both patients and their relatives
- Night shifts include taking care of surgical patients (abdominal surgery, urology, diabetology)

Scientific Advisor *Sep 2023 – Jul 2024*
Babyndex, Budapest, Hungary
- Using Artificial Intelligence to predict fertility windows using a pocket microscope
- Provided support designing a validation observational study to raise funding.

Course Coordinator of the "Leadership in Medicine" Course *Nov 2020 – Nov 2022*
Università Cattolica del Sacro Cuore, Rome, Italy
- Providing personalized guidance to students to meet their unique learning needs and challenges
- Effectively collaborate with both students and faculty members to facilitate a productive educational experience

Vaccination Doctor *May 2021 – Feb 2022*
Gemelli Hospital, Rome, Italy
- Administered COVID-19 vaccinations to 500+ patients, managing adverse event surveillance and recruiting participants for pharmacovigilance studies.

External Consultant *Nov 2021 – Feb 2022*
IBM Milan, Italy

- Advised on the development of a client health-monitoring application and digital health services as part of the Università Cattolica del Sacro Cuore (UCSC) clinical team, leading scientific coordination alongside IBM's technical infrastructure engineering.

Medical Doctor *Aug 2019 – Jan 2021*
Centro Medico San Luca Bari, Italy

- Practiced as a fertility physician, managing patient intake and conducting initial reproductive health evaluations.

Research

Bibliometric Indicators:

- H-index (Google Scholar): 15
- Total citations (Google Scholar): 752
- H-index (Scopus): 11
- Citations (Scopus): 477

Editorial Appointments: Guest Editor, PLOS Digital Health; Editorial Board Member, BMC Artificial Intelligence

Peer Reviewer: Journal of Medical Internet Research (JMIR), European Journal of Public Health, BMJ Digital Health & AI, PLOS ONE, JMIR Research Protocols, JMIR Rehabilitation and Assistive Technologies, PLOS Digital Health, Frontiers in Public Health, BMC Medical Education

Conference Abstract Reviewer: World Congress on Public Health, Rome (May 2023); 4th Annual Meeting, Società Italiana Intelligenza Artificiale in Medicina (SIIAM) (Dec 2026)
Conference Organization & Chair Roles: Conference Chair, Annual Meetings of SIIAM (Dec 2023, 2024, 2025); opened the plenary session and chaired the oral and poster presentation program (2025); moderated the opening session, "Introduction to AI: Technical and Legislative Framework," and coordinated the meeting's workshop (2023).

Creator & Maintainer *2025 – Present*
EuropeMedQA – Multilingual, Multimodal Medical LLM Benchmark
- Architected and open-sourced the largest European multilingual medical QA benchmark for LLMs, curated from official medical licensing examinations across Italy, France, Spain, and Portugal (github.com/causius0/e protocol: arXiv:2604.14306).
- Awarded **Best Presentation** at the NeurIPS 2025 Workshop on Multimodal Representation Learning for Healthcare.
- Published peer-reviewed study in MICCAI 2026 Workshops and Challenges proceedings.

Medical AI Leaderboard – Creator & Maintainer (causius0/medical-ai-leaderboard) *2026 - Present*

- Built an automated benchmarking pipeline and open leaderboard evaluating state-of-the-art open-source/open-weight LLMs and SLMs across European clinical reasoning benchmarks using EuropeMedQA
- Measures zero-shot, few-shot, and Chain-of-Thought (CoT) diagnostic accuracy, safety alignment, and multi-lingual translation fidelity

Early-Career Researcher Award *2025*
Journal of Medical Internet Research (JMIR)
- Recognized for developing a clinical machine learning model predicting postoperative outcomes and survival in bladder cancer patients undergoing radical cystectomy.

Research Ambassador *Sep 2024 – Jun 2026*
Karger Publishers Serving as ambassador for Karger Publishers (130+ year medical publishing house, 100+ peer-reviewed journals), promoting scientific dissemination, open access, and research communication within health sciences networks

Leadership and Expert Roles

Founding Vice-President *Sep 2023 – Jul 2025*
Società Italiana Intelligenza Artificiale in Medicina (SIIAM), Rome, Italy
- Co-founded and scaled Italy's premier non-profit medical AI association to 500+ paying members, uniting clinicians, researchers, and AI engineers.
- Directed multi-institutional research initiatives and educational programming focused on clinical decision support systems.
- Served as Scientific Director for the accredited continuing medical education (ECM/FAD) course, *"Ethics and Governance of AI in Medicine."*
- **Selected Research Leadership:**

- Developed and published a machine learning prognostic model for bladder cancer outcomes ($N >$ 300), earning the 2025 JMIR Early-Career Researcher Award.
- **United Nations AI Advisory Body (AIAB)**, Expert Consultation & Feedback

  Contributed official feedback and recommendations on global AI governance representing the Società Italiana Intelligenza Artificiale in Medicina (SIIAM), as part of the UN Secretary-General's High-level Advisory Body on AI's global consultation process.
- Spearheaded the creation of **EuropeMedQA**, securing the Best Presentation Award at NeurIPS 2025 (Multimodal Representation Learning for Healthcare Workshop).
- Led comparative evaluations of Chain-of-Thought (CoT) clinical reasoning consistency and safety across frontier LLMs (DeepSeek, Grok, Gemini, and Claude).

Expert *Jan 2025 – ongoing*

ASSESS-DHT, Horizon Europe Project Contributing expert input to the ASSESS-DHT Open Consultation, supporting the development of a harmonised European Health Technology Assessment (HTA) framework for Digital Health Technologies, including Digital Therapeutics, AI-based decision support systems, and telehealth solutions

External Expert *Feb 2024 – Jul 2025*

European Commission (Expert ID: EX2024D935921)

- Appointed domain expert in eHealth, Epidemiology, and Chronic Diseases.
- Contributed to the Commission's flagship *Study on the Deployment of AI in Healthcare*, led jointly by the Directorate-General for Health and Food Safety (DG SANTE) and PwC.

Subject Matter Expert & Partner *Jun 2023 – Jul 2025*

World Health Organization (WHO) – Regional Office for Europe

- Collaborated as an institutional partner within the Strategic Partners' Initiative for Data and Digital Health (SPI-DDH).
- Advised on AI governance and clinical translation for the WHO Europe Knowledge Community on Responsible AI in Health.

Life Sciences Mentor *Jun 2026 – Present*

GA-THERE Foundation Mentor medical students on study design, statistical methodology, and academic publishing to support transitions into clinical research careers.

Teaching

Teaching Assistant *Aug 2026 – ongoing*

University of Pennsylvania, Philadelphia, PA

- Mathematical Foundations of Computer Science (CIT 5920) (80+ students)
- Engineering Entrepreneurship I (EAS 5450) (150 students)

Lecturer *Jan 2025 – Jul 2025*

Master's Degree in Epidemiology and Biostatistics, Università Cattolica del Sacro Cuore, Rome, Italy

Lecturer *Mar 2023 – Jul 2025*

"Leadership in Medicine" graduate course, Università Cattolica del Sacro Cuore, Rome, Italy

Lecturer *Jan 2025 – Jul 2025*

"Economic Evaluations of Artificial Intelligence" graduate course

Scientific Coordinator *Dec 2023 – Jul 2025*

"Ethics and Governance of AI in Medicine" (FAD course), Società Italiana Intelligenza Artificiale in Medicina (SIIAM)

Fellowships and International Exchange Programs

Young Innovators Club *Sep 2023 – Jul 2025*

World Health Organization Lectures and consultancy on innovative health approaches, digital health and artificial intelligence in healthcare

Visiting Scholar *May 2023 – Jul 2023*
University Medical Center Amsterdam (UMC), Amsterdam, Netherlands
- Scholarship from the ExACT Consortium
- Research on citizens' attitudes towards health data sharing and personalized medicine
- Statistical analysis and policy mapping on the results of a survey investigating these topics
- Results included in a deliverable shared with the European Commission and a policy brief

Visiting Resident *Oct 2022 – Feb 2023*
Italian National Health Institute and Italian Ministry of Health, Rome, Italy
- Support in the Joint Action on Cancer and NCDs - preventive action on health determinants
- Focus on personalized prevention and digital technologies
- Technical consultancy on the creation of a National Health Prevention Hub
- Confrontation with the consultancy firm Intellera/PwC

Research Fellow *Feb 2022 – Apr 2022*
Jefferson College of Population Health, Thomas Jefferson University, Philadelphia, PA, USA Research on population health, funded by an Erasmus+ grant from the European Union

InnovAction in Healthcare IAC - Seasonal School *Nov 2020*
Scuola Superiore Sant'Anna Innovative practices in medicine: lean data analysis, medical pathways and performance improvement in healthcare

Enrico Letta's School of Policymaking *Sep 2020 – Jun 2021*
HelloAIris EIT Healthcare Training *Jun 2020 – Sep 2020*

GE Healthcare Introduction to Artificial Intelligence, Big Data, machine learning and their functions in different fields of medicine

Intern *Feb 2020 – May 2020*
Amsterdam Institute for Global Health and Development (AIGHD) (Remote) Systematic review on the effects of interventions in mothers and their effect on neuro-development in their children

Erasmus Student *Sep 2017 – Jul 2018*
Charité Universitätsmedizin (Faculty of Medicine and Surgery), Berlin, Germany

Exchange Student *Jun 2012 – Aug 2012*
Terenure College, Dublin, Ireland

Basic Life Support and Defibrillation (BLSD)
Gemelli University Hospital, Rome, Italy

Clinical Internships

Intern at Department of Public Health *Aug 2018 – Jan 2021*
Catholic University of Sacred Heart, Rome, Italy

Intern at Department of Metabolic Diseases and Medical Genetics *Jul 2016 – Sep 2016*
Giovanni XXIII Pediatric Hospital, Bari, Italy

Intern at the Institute of General Pathology - Immunology *Sep 2015 – Jul 2016*
Università Cattolica del Sacro Cuore, Rome, Italy

Intern at the Institute of Human Anatomy and Cellular Biology *May 2015 – Jul 2016*
Università Cattolica del Sacro Cuore, Rome, Italy

Funded Research Projects

EIRISS – Etica e Intelligenza Artificiale nella Ricerca in Sanità *Jan 2026 – ongoing*
Italian National Health Institute (ISS) Expert panel member developing ethical recommendations for responsible use of artificial intelligence in health research. Multidisciplinary collaboration addressing AI development, experimentation/validation, and research tool application. Methodological approach:

Nominal Group Technique (NGT), literature review, and modified Delphi consensus-building process. Focus areas: data ethics, algorithmic transparency, bias mitigation, informed consent, research integrity, and equity in AI implementation

Joint Action Prevent Non-Communicable Diseases (JA PreventNCD) *Jan 2024 – Jul 2025*
EU-cofunded Joint Action involving 100+ partners from 25 countries to reduce the cancer and NCD burden through coordinated strategies on health determinants, focusing on effective policies and both societal and personal risk factors

DigitAl lifelong pREvention (DARE) *Dec 2022 – Jul 2025*
DARE involves a wide community of partners and stakeholders, including universities, research centers, research hospitals, local health authorities, foundations, and private companies. The initiative aims to create and develop a connected and distributed knowledge community that fosters the emergence of models and solutions for surveillance, prevention, health promotion, and healthcare safety in the general population and special populations

Genomic Data Infrastructure (GDI) *Nov 2022 – Jul 2025*
The Genomic Data Infrastructure (GDI) project is enabling access to genomic and related phenotypic and clinical data across Europe. It is doing this by establishing a federated, sustainable and secure infrastructure to access the data. It builds on the outputs of the Beyond 1 Million Genomes (B1MG) project and is realising the ambition of the 1+Million Genomes (1+MG) initiative

PROPHET - A Personalized Prevention Roadmap *Sep 2022 – Jul 2025*
PROPHET – a PeRsOnalised Prevention roadmap for the future HEalThcare" will develop a Strategic Research and Innovation Agenda (SRIA) for Personalised Prevention, in order to support the implementation of innovative, sustainable and effective personalised programmes to prevent common chronic diseases

Integrating China in the International Consortium for Personalised Medicine (IC2PerMed)
Jan 2020 – Dec 2023
IC2PerMed project aims to support EU-China collaboration over the developments of Personalised Medicine research, innovations and policies through the ICPerMed initiative, providing people with access to personalised, smart and inclusive healthcare solutions

European network staff eXchange for integrAting precision health in the Health care SysTems (ExACT) *Jan 2019 – Aug 2023*
The ExACT consortium is aimed at building a community of academic and non-academic institutions that generates high quality, multidisciplinary collaboration by exchanging knowledge in research and training activities on precision health

CCM 2021: Italian Genomic Strategy *Dec 2021 – Jun 2024*
Support for European initiatives 1+MG and B1MG and activities carried out by the Interinstitutional Coordination for Genomics, for the development of technical-programmatic documents in the field of genomic interest in Public Health

Beyond 1 Million Genomes (B1MG) *Jan 2018 – Dec 2022*
The B1MG project is helping to create a network of genetic and clinical data across Europe. The project provides coordination and support to the 1+ Million Genomes Initiative (1+MG)

PartnERship to Contrast HPV (PERCH) *Oct 2022 – Dec 2023*
PERCH contributes to the implementation of Europe's Beating Cancer Plan, which aims to support Member States' efforts to extend the roll-out of routine HPV vaccination to eliminate cervical cancer and other cancers caused by HPV

Language Skills

Italian: Mother tongue
English: C1 (Proficient in all areas)
German: C1 (Proficient in all areas)

Spanish: B2 (Independent user)
French: A2 (Basic user)

Networks and Memberships

European Public Health Association (EUPHA) *Jan 2021 – Jul 2025*

Young World Federation of Public Health Associations - Operations and Project Officer
May 2023 – Jul 2025

- Coordinating ongoing projects and catalyzing existing resources into opportunities for personal development to young public health professionals globally
- Digital literacy and health literacy as determinants of health
- Survey on young public health professionals' views and needs
- Young WFPHA position paper on public health professionals' role in the future of public health
- Participation in activities of the Climate X Health Initiative

Segretariato Italiano Giovani Medici (SIGM) *Mar 2020 – Jul 2025*
Erasmus Student Network *Aug 2019 – Jul 2025*

Italian Society of Human Genetics (SIGU)

Experimental Medicine Training Initiative - University of Cambridge

"Francesco Olgiati" Non-Profit Blood Donor Association

Società Italiana di Igiene - Italian Hygiene Society *Jan 2021 – Jul 2025*

Visionari.org *Feb 2021 – Jul 2025*

Non-profit association spreading scientific knowledge through social networks, Youtube, podcasts

Coalition for Independent Technology Research *Jun 2023 – Jul 2025*
Global Burden of Disease Collaborator Network *Apr 2023 – Jul 2025*

European Institute of Technology - EIT *Sep 2020 – Jul 2025*

EIT Alumni Nodes, EIT Health Innovators Community

WHO EVID-Action Youth Alcohol Network *Nov 2023 – Jul 2025*
Setting up a strategy to fight alcohol addiction under a public health perspective, using digital tools including social media and AI prediction tools

Publications

Selected Peer-Reviewed Publications

[1] **Causio FA**, De Vita V, Nappi A, Sawaya M, Rocco B, Foschi N, Maioriello G, Russo P. Survival Prediction in Patients With Bladder Cancer Undergoing Radical Cystectomy Using a Machine Learning Algorithm: Retrospective Single-Center Study. *JMIR Perioperative Medicine*. 2026;9:e86666. doi:10.2196/86666

[2] Farina S, **Causio FA**, Risuleo PE, Verduchi A, Pascucci E, Sabatelli A, Galarducci R, Russo L, Sonnini E, Pasciuto T, Amore R, Arzani D, Cordisco EL, Genuardi M, Pastorino R, Boccia S. Implementing polygenic risk scores for breast cancer prevention: protocol for a feasibility study in a real-world clinical setting. *BMJ Open*. October 2026.

[3] **Causio FA**, Golinelli D, Diedenhofen G, Silenzi A, Ferro D, Baglivo F. Fragmented but evolving: a response to the editorial "the Italian health data system is broken". *The Lancet Regional Health – Europe*. 2025;51:101256. doi:10.1016/j.lanepe.2025.101256

[4] Villani L, Russo L, **Causio FA**, Savoia C, Pastorino R, De Waure C, Ricciardi W, Boccia S. Trends in childhood vaccination coverage in the European Union, 1980–2024: an ecological time-series study.

The Lancet Regional Health – Europe. 2026. doi:10.1016/j.lanepe.2026.101834

[5] Cascini F, Beccia F, **Causio FA**, Melnyk A, Ricciardi W. Scoping review of the current landscape of AI-based applications in clinical trials. *Frontiers in Public Health*. 2022;10:949377. doi:10.3389/fpubh.2022.949377

[6] Di Sarno L, Caroselli A, Tonin G, Graglia B, Pansini V, **Causio FA**, et al. Artificial Intelligence in Pediatric Emergency Medicine: Applications, Challenges, and Future Perspectives. *Biomedicines*. 2024;12(6):1220. doi:10.3390/biomedicines12061220

[7] Felizzi F, Riccomi O, Ferramola M, **Causio FA**, Del Medico M, De Vita V, De Mori L, Piscitelli A, Risuleo PE, Destro Castaniti B, Cristiano A, Longo A, De Angelis L, Vassalli M, Di Pumpo M. Are Large Vision Language Models Truly Grounded in Medical Images? Evidence from Italian Clinical Visual Question Answering. Accepted at the *Workshop on Multimodal Representation Learning for Healthcare (MMRL4H), NeurIPS 2025*. **Best Presentation Award**. arXiv:2511.19220.

[8] Felizzi F, **Causio FA**, Destro Castaniti B, Riccomi O, Ferramola M, De Vita V, Tosi A, Cristiano A, Longo A, De Mori L, Battipaglia C, Sawaya M, et al. Conviction Without Evidence: Verdict Stability Is Independent of Visual Grounding in Medical Vision–Language Models. Accepted at the *NeurIPS 2026 Workshop on Medical Reasoning with Vision Language Foundation Models (MedReasoner)*. arXiv:2610.34520. 2026.

[9] **Causio FA**, Riccomi O, De Vita V, et al. EuropeMedQA: A Multilingual, Multimodal Medical Examination Dataset for Language Model Evaluation. In: *Medical Image Computing and Computer Assisted Intervention – MICCAI 2026 Workshops and Challenges (AMAI)*. Lecture Notes in Computer Science, vol. 17273. Springer Nature Switzerland; 2026. papers.miccai.org/miccai-2026-sat/AMAI_038

[10] Pastorino R, Pezzullo AM, Villani L, **Causio FA**, Axfors C, Contopoulos-Ioannidis DG, Boccia S, Ioannidis JPA. Change in age distribution of COVID-19 deaths with the introduction of COVID-19 vaccination. *Environmental Research*. 2022;204(Pt C):112342. doi:10.1016/j.envres.2021.112342

2026

[11] **Causio FA**, Beccia F, Calabrò GE, Kreeftenberg LL, Pastorino R, van El C, et al. Knowledge and attitudes of personalized medicine, genetic testing, and health data sharing: a comprehensive survey in the European Union. *Journal of Public Health Policy*. 2026. doi:10.1057/s41271-025-00619-0

[12] Di Pumpo M, **Causio FA**, Boccia S, Ricciardi W. The double-edged sword of automation and the risks of AI's uneven impact on healthcare professions: a comment on the OECD artificial intelligence papers report. *Annali dell'Istituto Superiore di Sanità*. 2026;62(1):13-15. doi:10.4415/ANN_26_01_04

[13] Beccia F, **Causio FA**, Porcelli M, Proto L, Calabrò GE, van El C, Boccia S, Pastorino R. Awareness and perceived educational needs regarding personalised medicine: Cross-country differences from a European survey. *Public Health*. 2026;257:106381. doi:10.1016/j.puhe.2026.106381

[14] **Causio FA**, Gandolfi S, Kaur J, Sert B, Fakhfakh M, De Angelis L, Di Pumpo M, Diedenhofen G, Berionni A, Rizzo C, Cascini F, Morita P, et al. Impact of Digital Health Interventions on Health Literacy: A Systematic Review with Level Of Evidence Assessment. *Monolith Alpha*. 2026;1(1). doi:10.67362/112358/541743250

2025

[15] **Causio FA**, Farina S, et al. The Italian national genomic strategy: current status, challenges, and future perspectives in clinical practice and public health. *Journal of Community Genetics*. 2025;16:699-703. doi:10.1007/s12687-025-00828-w

[16] **Causio FA**, Gentili A, Beccia F, De Maio L, Melnyk A, Quaranta G, Russo L, et al. A Survey on Italian General Practitioners' Perspectives Regarding the Reorganization of Primary Care Services. *Annali di Igiene: Medicina Preventiva e di Comunità*. 2025;37(6):730-736. doi:10.7416/ai.2025.2695

[17] Beccia F, **Causio FA**, Di Marcantonio M, Hoxhaj I, Cadeddu C, Campagno M, et al. A roadmap for personalized medicine: the findings of the IC2PerMed project. *Frontiers in Medicine*. 2025;12:1572921. doi:10.3389/fmed.2025.1572921

[18] Villani L, **Causio FA**, Savoia C, Pastorino R, Ricciardi W, Boccia S, et al. Trends in pediatric vaccination coverage in Italy from 2000 to 2023. *European Journal of Public Health*. 2025;35(4):781-787. doi:10.1093/eurpub/ckaf107

[19] Baglivo F, Diedenhofen G, De Angelis L, Pivetta A, **Causio FA**, D'Ambrosio A, et al. (SIIAM).

Why tomorrow's public health needs to be digital: artificial intelligence and automation for a sustainable Italian National Health Service. *Recenti Progressi in Medicina*. 2025;116(10). doi:10.1701/4573.45775

[20] Sacchi F, Cascini F, Conditi N, Ravizza A, Daverio M, **Causio FA**, et al. (SIIAM). The path to trustworthy medical AI: the evolving role of explainability. *Recenti Progressi in Medicina*. 2025;116(10). doi:10.1701/4573.45774

[21] De Angelis L, Pivetta A, Baglivo F, Cappellini L, Sacchi F, Di Pumpo M, Mercier M, Diedenhofen G, Di Bartolomeo M, **Causio FA**, et al. (SIIAM). Towards learning healthcare systems in Italy: opportunities and challenges of AI at point-of-care. *Recenti Progressi in Medicina*. 2025;116(10). doi:10.1701/4573.45776

[22] Ferro D, Baglivo F, De Angelis L, **Causio FA**, Di Pumpo M, Sacchi FA, Diedenhofen G, Pivetta A, Belpiede A, Tozzi AE. (SIIAM). Making the case for digital twins: Italian healthcare needs AI-driven predictive modeling for personalized medicine. *Recenti Progressi in Medicina*. 2025;116(10):561-566. doi:10.1701/4573.45777

[23] Osti T, Savoia C, Farina S, Beccia F, **Causio FA**, Wang L, Wang W, Fotino C, Cadeddu C, Ricciardi W, Boccia S. Advancing personalized medicine: key priorities for clinical studies and funding systems based on a Europe-China collaborative Delphi survey. *European Journal of Public Health*. 2025;35(2):209-215. doi:10.1093/eurpub/ckaf004

[24] **Causio FA**, Beccia F, Tona DM, Verduchi A, Cristiano A, Calabrò GE, Pastorino R, van El C, Boccia S. Public perceptions and engagement in mHealth: a European survey on attitudes toward health apps use and data sharing. *European Journal of Public Health*. 2025;35(3):401-406. doi:10.1093/eurpub/ckaf036

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Conference Presentations

2026 – **Intelligent Teaching: AI in Health Professions Education**, Thomas Jefferson University (Jefferson College of Population Health), Virtual (Oct 7, 2026)

Poster presentation (with Anushka Sheoran, University of Pennsylvania): "Perceived Adoption, Mistrust, and Career Anxiety: Generative AI Through the Eyes of AI-Engaged University Students."

2025 – **NeurIPS Workshop on Multimodal Representation Learning for Healthcare**, San Diego, CA

Oral presentation (**Best Presentation Award**): "EuropeMedQA: A Multilingual, Multimodal Medical Examination Dataset for LLM Benchmarking."

2024 – **European Public Health Conference (EUPHA)**, Lisbon, Portugal

Poster presentations: (1) "Impact of Digital Health Interventions on Health Literacy: A Systematic Review"; (2) "Knowledge and Attitudes of Personalized Medicine and Health Data Sharing in the EU."

2023 – **European Public Health Conference (EUPHA)**, Dublin, Ireland

Oral and poster presentations on personalized medicine survey results and digital health literacy.

2023 – **World Congress on Public Health (WCPH)**, Rome, Italy (May 2023)

Oral presentation: "Preliminary Results on a Survey Targeting Citizens' Attitudes Towards Personalized Medicine and Health Data Sharing."

2022 – **European Public Health Conference (EUPHA)**, Berlin, Germany

Oral presentation (**Ferenc Bojan Young Investigator Award Session**): "Vaccination Coverage Trends in European Union from 1980 to 2020: A Joinpoint Regression Analysis."

2022 – **Società Italiana di Igiene (SItI) – Congresso Nazionale**, Padua, Italy

Pitch presentation: "Preliminary Results of the CCM Project 'Italian Genomic Strategy'."

2021 – **Società Italiana di Igiene (SItI) – Congresso Nazionale**, Lecce, Italy

Oral presentation: "Health Data, ICT, and Biobanking in Personalized Medicine: A Comparative Analysis Between Europe and China."

Preprints, Book Chapters, and Technical Reports

Preprints & Study Protocols

2026 – **Causio FA**, De Vita V, Riccomi O, Ferramola M, Felizzi F, Cristiano A, et al. EuropeMedQA Study Protocol: A Multilingual, Multimodal Medical Examination Dataset for Language Model Evaluation. *arXiv* preprint. 2026;arXiv:2604.14306. arXiv:2604.14306

2026 – **Causio FA**, De Vita V, Pivetta A, Maio P, et al. Evaluating Chain-of-Thought Reasoning in LLMs for Complex Clinical Psychiatric Cases. *Research Protocol*. 2026.

2026 – Giacobini E, Lentini N, Verduchi A, Cuoco F, **Causio FA**, Di Pumpo M, Porcelli M, Tona DM, Rigaud M, Poirel HA, Rossetti F, Van Den Bulcke M, Boccia S, Pastorino R. Risk-based stratification for genetic and modifiable factors in non-communicable diseases prevention: a scoping review of current guidance. *Research Square* preprint. 2026. doi:10.21203/rs.3.rs-9413274/v1

2025 – **Causio FA**, Gandolfi S, Kaur J, Sert B, Fakhfakh M, De Angelis L, Di Pumpo M, Diedenhofen G, Berionni A, Rizzo C, Cascini F, Morita P, Mackey T. Impact of Digital Health Interventions on Health Literacy: A Systematic Review with Quality Appraisal. *medRxiv* preprint. 2025. doi:10.1101/2025.02.27.25323025

Book Chapters & Textbooks

Forthcoming – Buttigieg S, **Causio FA**, et al. Artificial Intelligence in Public Health (book chapter). In: Ricciardi W, et al., editors. *Oxford Handbook of Public Health Practice*. 5th ed. Oxford University Press.

Etica e governance dell'intelligenza artificiale per la salute: Linee guida per i modelli multimodali di grandi dimensioni (LMM) *2024*

Zadig Edizioni Co-Coordinator and Author (SIIAM)Italian edition of the WHO guidance on the ethics and governance of AI for health, co-coordinated and authored for the Società Italiana Intelligenza Artificiale in Medicina (SIIAM); ISBN 9788831306379 (full-text PDF).

2024 – Favaretti C, **Causio FA**, Guarrera GM, Damiani G. Il moderno management sanitario dell'ospedale (Chapter 8). In: Ricciardi W, Favaretti C, Laurenti P, editors. *Manuale per navigare la complessità nell'ospedale del futuro*. Edizioni Idelson-Gnocchi; 2024. pp. 153–174.

2023 – Co-author. *Manuale di Igiene, Statistica ed Epidemiologia* (10th ed. – Concorso Nazionale SSM 2024). Accademia Italiana Medici Specializzandi (AIMS); 2023.

2023 – Co-author (Chapter 5: Diagnostic Tests; Chapter 6: Virus Variants). In: *Analisi dei modelli organizzativi di risposta al Covid-19 in Italia*. 2023. ISBN: 979-12-211-5171-8.

2022 – Contributor (Chapter: "Cancer Epidemiology and Prevention"). In: *Chirurgia: Basi teoriche e chirurgia generale – Chirurgia specialistica* (Vol. 1–2). Edra / Masson; 2022. ISBN: 8821454355.

Technical Reports & White Papers

2023 – IC2PerMed Consortium (Contributor: **Causio FA**). Deliverable 2.2: Position Papers for the 6 Challenges on Which Working Groups Are Focused (WP2 – Knowledge Synthesis on the Identification, Transferability and Scaling Up of International Standards in Personalised Medicine). 2023.

2022 – Global Digital Health Partnership (Contributor: **Causio FA**). *Global Digital Health Partnership Survey on Digital Health Development: GDHP White Paper on Evidence and Evaluation*. 2022.

Conference Proceedings and Abstracts

2026 – **Causio FA**, De Vita V, Riccomi O, Ferramola M, Felizzi F, Cristiano A, et al. EuropeMedQA: A Multilingual, Multimodal Medical Examination Dataset for LLM Benchmarking. In: *MICCAI*

2026 Workshops and Challenges (Lecture Notes in Computer Science, Vol. 17273). Springer; 2026. papers.miccai.org/miccai-2026-sat/AMAI_038

2026 – Giannaki A, Abidi SMA, Boonstra A, Brunskill H, **Causio FA**, et al. Future leaders in child and adolescent mental health research: addressing career challenges of young researchers across the WHO European Region. *European Journal of Public Health.* 2026;36(Suppl 3):iii19–iii20. doi:10.1093/eurpub/ckag024

2025 – **Causio FA**, Farina S, Russo L, Pascucci E, Verduchi A, Amore R, Sabatelli A, Lucci Cordisco E, Pastorino R, Boccia S. Integrating Genetic Risk Models in Breast Cancer Prevention: A Pilot Study. *European Journal of Public Health.* 2025;35(Suppl 4):ckaf161.1768. doi:10.1093/eurpub/ckaf161.1768

2025 – Giacobini E, **Causio FA**, Lentini N, Verduchi A, Di Pumpo M, Cuoco F, Tona DM, Porcelli M, Pastorino R. Mapping personalized risk-stratified prevention approaches: A JA PreventNCD Project scoping review. *European Journal of Public Health.* 2025;35(Suppl 4):ckaf161.1200. doi:10.1093/eurpub/ckaf161.120

2024 – Favaretti C, **Causio FA**, Guarrera GM, Damiani G. Il moderno management sanitario dell'ospedale (Chapter 8). In: *Manuale per navigare la complessità nell'ospedale del futuro.* Edizioni Idelson-Gnocchi; 2024.

2024 – **Causio FA**, Fakhfakh M, Kaur J, Sert B, Gandolfi S, Di Pumpo M, De Angelis L, Berionni A, Mackey T, Cascini F. Digital health interventions' impact on health literacy: a systematic review. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.1201. doi:10.1093/eurpub/ckae144.1201

2024 – **Causio FA**, Beccia F, Kreeftenberg L, Calabrò GE, Pastorino R, Van El C, Boccia S. Proficiency in Personalized Medicine and Health Data Sharing in the EU. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.2170. doi:10.1093/eurpub/ckae144.2170

2024 – Pascucci E, **Causio FA**, Pesole G, Chiara M, Morelli M, Tonon G, Nicassio F, Pastorino R, Calabrò GE, Boccia S. Progressing towards personalised medicine: the Genomic Data Infrastructure (GDI) project. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.1956. doi:10.1093/eurpub/ckae144.1956

2024 – Porcelli M, Beccia F, **Causio FA**, Proto L, Tona DM, Di Pumpo M, Van El C, Calabrò GE, Pastorino R, Boccia S. Citizen needs towards personalised medicine and genetic testing: results from a European survey. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.928. doi:10.1093/eurpub/ckae144.928

2024 – Tona DM, **Causio FA**, Beccia F, Cristiano A, Verduchi A, Porcelli M, Van El C, Calabrò GE, Pastorino R, Boccia S. Public Perceptions and Engagement in mHealth Across Eight European Countries. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.1176. doi:10.1093/eurpub/ckae144.1176

2024 – Cascini F, **Causio FA**, Melnyk A. Monitoring the digital healthcare transition in Italy: Initiatives, metrics and feedback from Primary Care Physicians. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.074. doi:10.1093/eurpub/ckae144.074

2024 – Beccia F, **Causio FA**, Porcelli M, Proto L, Van El C, Calabrò GE, Pastorino R, Boccia S. Health literacy in the evolving era of personalised medicine and digital health. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.162. doi:10.1093/eurpub/ckae144.162

2024 – Melnyk A, Gentili A, Beccia F, **Causio FA**, Battilomo S, Paone S, Borghini A, Bartolo M, Chiarolla E, Cascini F. A new digital model for Italian Integrated Home Care: strengths, barriers, and future implications. *European Journal of Public Health.* 2024;34(Suppl 3):ckae144.1138. doi:10.1093/eurpub/ckae144.1138

2023 – **Causio FA**, Van El C, Boccia S, Beccia F, Pastorino R. Preliminary results from a multi-country survey investigating citizens' attitudes towards personalized medicine and data sharing. *Population Medicine.* 2023;5(Supplement):A750. doi:10.18332/popmed/164032

2023 – Villani L, Savoia C, **Causio FA**, Pastorino R, Ricciardi W, Boccia S. Trend in mandatory vaccination coverage in Italy from 2000 to 2021. A joinpoint Regression Analysis. *European Journal of Public Health.* 2023;33(Suppl 2):ckad160.439. doi:10.1093/eurpub/ckad160.439

2023 – Boccia S, Beccia F, Calabrò GE, Pastorino R, Comandé G, Coviello D, Morelli M, Pesole G, Tonon G, **Causio FA**, Farina S, Russo L, et al. Fostering exchange of genomic data between European countries for clinical and research purposes: the Genomic Data Infrastructure (GDI) project. *Population*

Medicine. 2023;5(Supplement):A819. doi:10.18332/popmed/164252

2023 – Osti T, Valz Gris A, **Causio FA**, Gualano MR, Favaretti C, Ricciardi W, Damiani G. Leadership styles, which one fits better? A bibliometric analysis. *Population Medicine*. 2023;5(Supplement):A665. doi:10.18332/popmed/163742

2022 – **Causio FA**, Villani L, Mariani M, Pastorino R, De Waure C, Ricciardi W, Boccia S. Vaccination coverage trends in European Union from 1980 to 2020: A joinpoint Regression Analysis. *European Journal of Public Health*. 2022;32(Suppl 3):ckac129.306. doi:10.1093/eurpub/ckac129.306

2022 – Beccia F, **Causio FA**, Farina S, Savoia C, Osti T, Di Marcantonio M, Morsella A, Cadeddu C, Ricciardi W, Boccia S. Personalised Medicine in shaping sustainable healthcare: a Delphi survey within the IC2PerMed project. *European Journal of Public Health*. 2022;32(Suppl 3):ckac129.429. doi:10.1093/eurpub/ckac129.429

2022 – Cascini F, Beccia F, **Causio FA**, Muscat NA, Ricciardi W. Editorial: Digitalization for precision healthcare. *Frontiers in Public Health*. 2022;10:1078610. doi:10.3389/fpubh.2022.1078610

2019 – Acampora A, Grossi A, Barbara A, Colamesta V, **Causio FA**, Calabrò GE, Boccia S, De Waure C. Increasing HPV vaccination uptake among adolescents: A Systematic Review. *European Journal of Public Health*. 2019;29(Suppl 4):ckz185.455. doi:10.1093/eurpub/ckz185.455

Invited Talks

2026 – **Scuola di Politiche – Nutshell Course**, Virtual

Invited lecture: "AI for Human Health and Societal Good."

2025 – **AIIC National Conference (Associazione Italiana Ingegneri Clinici)**, Naples, Italy

Invited speaker: "Healthcare Innovation, Sustainability, and Environment: Avoiding Horseless Carriages in Medical AI Adoption.'

2025 – **2025 Italian Symposium**, Madrid, Spain

Invited panelist: "Beyond the Algorithm: Business and Medicine in the Age of Intelligence" (Universidad Europea / UEM).

2025 – **Fondazione Policlinico Gemelli IRCCS & Università Cattolica del Sacro Cuore**, Rome, Italy

Invited speaker: Seminar on the Implementation of AI in Healthcare and SIIAM's Institutional Role.

2025 – **ALTEMS Advisory Seminar ("Digitalizzazione Umana")**, Rome, Italy

Invited speaker and presenter: Representing SIIAM's peer-to-peer approach to digital health integration.

2024 – **Aspettando SHARPER (European Researchers' Night)**, Terni, Italy

Keynote presentation: "Artificial Intelligence in Medicine: Where We Are and Where We Are Headed."

2024 – **EIT Health Summit 2024**, Rotterdam, Netherlands

Panel moderator: "Future-Proofing the Healthcare Workforce: Upskilling and Reskilling for Digital Transformation'.

2024 – **WHO Europe / EVID-Action Member States Focal Point Meeting**, Madrid, Spain

Invited speaker: Presented research findings on QR code compliance and health information transparency in alcohol labeling across Europe.

2023 – **ExACT Open Seminar (European Network Staff Exchange for Integrating Precision Health)**, Virtual

Invited seminar: "Citizens' Attitudes Towards Personalized Medicine and Health Data Sharing: Multi-Country Survey Results."

2022 – **IC2PerMed Roadmap Validation Workshop (EU–China Personalized Medicine Initiative)**, Virtual

Invited presentation: "Mapping European and Chinese Personalized Medicine Standards to Inform Strategic Roadmap Drafting."

Honours and Awards

Best Presentation Award *2025*
Workshop for Multimodal Representation Learning for Healthcare at NeurIPS 2025 Awarded for outstanding presentation at the NeurIPS 2025 workshop on multimodal representation learning in healthcare

Early-Career Researcher Award *2025*
Journal of Medical Internet Research (JMIR) Recognized for excellence in early-career research contributions to medical informatics and artificial intelligence in healthcare

RYLA Rotary Youth Leadership Award for Start-ups *May 2024*
Rotary Roma Acquasanta Second place in a startup competition. Led a team designing an app to collect disease information and provide personalized information to users

IC2PerMed Consortium Scholarship *2023*
Master's in Epidemiology and Biostatistics Awarded for outstanding research achievements

ExACT Consortium Scholarship *2023*
Visiting Scholar Program Funded visiting scholar position at University Medical Center Amsterdam

Ferenc Bojan Prize *2022*
EUPHA Abstract on "Vaccination coverage trends in European Union from 1980 to 2020: A joinpoint Regression Analysis" for the European Public Health Conference 2022 was ranked among the 5 receiving the highest score

Premio Seasonal School Sant'Anna *Dec 2020*
Fondazione Talento all'Opera Awarded a money prize for attending a course with outstanding results at Scuola Superiore Sant'Anna

Erasmus+ Scholarship *2017-2018*
Fifth Year of Medical School in Germany Full scholarship for study abroad at Charité Universitätsmedizin, Berlin

Press, Media and Science Communication

Authored Contributions

L'Intelligenza Artificiale per salvare il Servizio Sanitario Nazionale *Apr 2025*
HealthTech360 **Causio FA**, Conditi N, De Angelis L, Maio P, Sacchi FA

Il sistema italiano dei dati sanitari è davvero "rotto"? *Apr 2025*
TrendSanità – Editoriale SIIAM Baglivo F, **Causio FA**, Sacchi FA

Se a prescrivere i farmaci è un'AI e non più un medico *Mar 2025*
TrendSanità – Across Europe Ravizza A, Golinelli D, [...], **Causio FA**, Sacchi FA

Intelligenza Artificiale in Sanità: i commenti di SIIAM al disegno di legge *Nov 2024*
HealthTech360 **Causio FA**, et al.

Report Draghi sulla competitività europea: anche AI e sanità divise tra innovazione e regolamentazione *Nov 2024*
TrendSanità – Editoriale SIIAM Sacchi FA, **Causio FA**, Loriga B

DDL Intelligenza Artificiale, quello che c'è da migliorare su formazione e ricerca a beneficio del SSN *Oct 2024*
TrendSanità – Editoriale SIIAM De Angelis L, **Causio FA**, Sacchi FA

SIIAM: "Intelligenza artificiale e salute, tanta buona ricerca ma ancora poche imprese e pochi brevetti" *Oct 2024*

TrendSanità – Editoriale SIIAM Loriga B, **Causio FA**, Sacchi FA

Ecco perché ricerca biomedica e AI per la salute sono più libere con la modifica del Codice Privacy *Jul 2024*
TrendSanità – Editoriale SIIAM Sacchi FA, **Causio FA**, Grieco V, Loriga B, Baglivo F

L'intelligenza artificiale generativa nella sanità, da ChatGPT all'AI ACT *Apr 2024*
TrendSanità – Editoriale SIIAM Baglivo F, **Causio FA**, De Angelis L, et al.

Features and Media Appearances

Trends in childhood vaccination coverage in the European Union, 1980–2024 *Sep 2026*
The Lancet Regional Health – Europe Villani L, Russo L, **Causio FA**, et al. Ecological time-series study of seven childhood vaccines across all 27 EU countries. DOI: 10.1016/j.lanepe.2026.101834

Media coverage: Le Monde (FR), Le Parisien (FR), Libération (FR), El País (ES), Infobae (ES), HuffPost (ES), EFE (ES), FAZ (DE), Tagesschau (DE), news.at (AT), HealthNews (PT), Lusa (PT), Skai (GR), Russpain (EN), Bursa (RO), SigmaLive (CY), L'essentiel (LU), Le Spécialiste (BE), Maszol (RO), Bursa (RO), Playtech (RO), Aktual24 (RO), Ara (ES), Yahoo News (EN), Irish Independent (IE), InsaluteNews (IT), RIFday (IT)

Congresso SIIAM, Causio: "Valutiamo insieme la AI. In sanità non tutti gli ambiti sono già pronti ad usarla" *Nov 2024*
TrendSanità – Interview Interview on the 2nd Annual Meeting SIIAM, covering multidisciplinary AI assessment, regulatory and ethical implications, and digital health literacy

A Day in the Life of a Karger Ambassador: Dr. Francesco Andrea Causio *2024*
Karger Publishers – Beyond the Cover Profile feature on research, AI in medicine, and the role of the Karger Ambassadors Program in connecting health science communities

Exploring the AI Frontier: Insights from the Latest Karger in Conversation Panel *Nov 2023*
Karger Publishers – Experience Karger Panelist at Karger in Conversation online event on AI, ChatGPT and Machine Learning in health science publishing

Volunteering

Head of Organization *Oct 2019 – Dec 2020*
Erasmus Student Network, Bari, Italy
- Directed onboarding and cultural integration initiatives for 150+ international exchange students, fostering cross-cultural community building and local academic support.

Team Coordinator Volunteer *Aug 2015 – Sep 2015*
Expo 2015, Milan, Italy
- Supervised a 10-person hospitality team to manage visitor operations, multilingual assistance, and crowd logistics for international delegates at the Universal Exposition.

Clinical Support Volunteer *Feb 2015 – May 2015*
Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy
- Assisted medical staff with daily ward operations while providing compassionate bedside support and care navigation for hospitalized patients and their families.

Personal Projects

Monolith (monolithalpha.org) - Founder *Dec 2025–Sep 2026*

- AI-native publishing journal born to tackle the publish or perish crisis
- Incubated by University of Pennsylvania Venture Lab
- Awarded grant from University of Pennsylvania Venture Lab for AI-driven research platform development

TetaCare - Founder *Apr 2024 – Jan 2025*

- Architected an AI-driven well-being tracker
- Built an RAG library to generate patient action recommendations
- Drove pilot launch to 500+ daily interactions
- Won 2nd place among 50 startups in RYLA Rotary Youth Leadership Award competition

Curiosa COVID-19 Chatbot - Founder *Mar 2020 – Dec 2020*

- Used Python to design and deploy a chatbot serving 100+ users for accessing verified information during the COVID-19 pandemic
- Provided reliable health information during critical early pandemic period

Professional Licenses

License to Practice Medicine in Italy *Mar 2020*
Medical Board Number: OMCEO BA 16660

Skills

Programming: Python, TypeScript, Java, C++, LaTeX

AI & Machine Learning: LLMs, RAG Systems, Prompt Engineering, Agentic Workflows, ML Model Evaluation, Clinical AI, NLP

Data & Research: Data Structures & Algorithms, Statistical Analysis, Systematic Reviews, Survey Design, Epidemiology, Biostatistics

Tools: Git, GitHub, Docker, Microsoft Office, Google Workspace

Languages: Italian (Native), English (C1), German (C1), Spanish (B2), French (A2)

Soft Skills: Leadership & Management, Scientific Communication, Public Speaking, Cross-functional Collaboration, Grant Writing, Teaching & Mentoring