Giovanni Irmici

Date of birth: **Nationality:** Italian | **Email address:**

WORK EXPERIENCE

BREAST RADIOLOGIST – FONDAZIONE IRCCS ISTITUTO NAZIONALE DEI TUMORI – 21/02/2024 – Current – MILANO, ITALY

Fondazione IRCCS Istituto Nazionale dei Tumori is one of the leading oncology centers in Italy, with a dedicated Breast Unit treating over 800 breast cancer cases per year. Our radiology team is fully specialized in breast imaging, covering diagnostic (mammography, ultrasound, CEM, MRI) and interventional procedures (biopsy, fine-needle aspiration, ultrasound- and stereotactic-guided VABB, as well as CEM- and MRI-guided biopsies). We also provide a FAST radiology pathway supporting the one-stop breast clinic model.

BREAST RADIOLOGIST – LILT MILANO MONZA BRIANZA – 01/12/2023 – Current – MILAN, ITALY

LILT (Lega Italiana per la Lotta contro i Tumori) is a national non-profit organization dedicated to cancer prevention, early detection, and patient support.
At LILT Milano, I am involved in both diagnostic and interventional breast imaging, and I actively participate in community awareness initiatives, including 'Pink October,' supporting education and early-detection campaigns across the region

EDUCATION AND TRAINING

30/10/2012 – 26/07/2018 Foggia, Italy
MASTER'S DEGREE IN MEDICINE AND SURGERY, 110/110 CUM LAUDE Università degli Studi di Foggia

30/07/2018 – 01/10/2018 London, United Kingdom
ERASMUS TRAINEESHIP IN INTERVENTIONAL AND DIAGNOSTIC RADIOLOGY St. George's University Hospital NHS trust

01/11/2019 – 31/10/2023 Milano, Italy
POST GRADUATION SCHOOL IN RADIODIAGNOSTIC, 70/70 CUM LAUDE Università degli Studi di Milano

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Google (Google Drive, Google Docs, Google Slides, Google Sheets, Google Meets, Google Trends) | Canva | Microsoft Office

PUBLICATIONS

2020

AI for the detection of COVID-19 pneumonia on chest CT using multinational datasets.

Harmon SA, Sanford TH, Xu S et al

Nature Communications

2021

Unilateral Axillary Lymphadenopathy After Coronavirus Disease (COVID-19) Vaccination.

Cellina M, Irmici G, Carrafiello G

American journal of Roentgenology

2022

Computed tomography in traumatic orbital emergencies: a pictorial essay-imaging findings, tips, and report flowchart

Cellina M, Cè M, Marziali S, Irmici G et al

Insights into Imaging.

2022

Nontraumatic orbital emergencies: a pictorial essay - CT and MRI features for an imaging findings-based approach.

Cellina M, Cè M, Irmici G et al

Emergency Radiology

2022

A rare case of unilateral vocal cord paralysis: neurovascular conflict due to an aberrant bronchial artery detected at computed tomography.

Cè M, Bombaci F, Sdao S et al

Radiology Case Reports

2022

Precision Imaging Guidance in the Era of Precision Oncology: An Update of Imaging Tools for Interventional Procedures.

Floridi C, Cellina M, Irmici G et al

Journal of Clinical Medicine

2022

Artificial Intelligence in Lung Cancer Imaging: Unfolding the Future.

Cellina M, Cè M, Irmici G et al

Diagnostics

2022

Artificial Intelligence in Emergency Radiology: Where Are We Going?

Cellina M, Cè M, Irmici G et al

Diagnostics

2023

Chest X-ray in Emergency Radiology: What Artificial Intelligence Applications Are Available?

Irmici G, Cè M, Caloro E et al

Diagnostics

2023

Artificial Intelligence in Brain Tumor Imaging: A Step toward Personalized Medicine.

Cè M, Irmici G, Foschini C et al

Current Oncology

Utility of detection of breast calcifications with integrated real-time radiography system (IRRS) during digital breast tomosynthesis (DBT)-guided vacuum assisted biopsy (VAB): initial single-center experience.

Giambersio E, Depretto C, Trimboli RM et al

La Radiologia Medica

2023

Diagnosis and Treatment of Post-Prostatectomy Lymphedema: What's New?

Bianchi L.M.G, Irmici G, Cè M et al

Current Oncology

Ultrasound Elastography for the Differentiation of Benign and Malignant Solid Renal Masses: A Systematic Review and Meta-Analysis.

Cè M, Cozzi A, Cellina M et al

Applied Science

2023

Digital Twins: The New Frontier for Personalized Medicine?

Cellina, M, Cè M, Alì M, Irmici G et al

Applied Science.

2023

Efficacy and safety of vacuum-assisted excision (VAE) of fibroadenomas: experience in a tertiary centre

Carriero S, Depretto C, Cozzi A et al

La Radioliologia medica

2024

Exploring the Potential of Artificial Intelligence in Breast Ultrasound

Irmici G, Cè M, Della Pepa G et al

Critical Reviews™ in Oncogenesis

2024

Exploring the Role of ChatGPT in Oncology: Providing Information and Support for Cancer Patients

Cè M, Chiarpenello V, Bubba A et al

BioMedInformatics

2024
Assessing the malignancy of suspicious breast microcalcifications: the role of contrast enhanced mammography

Depretto C, D'Ascoli E., Della Pepa G et al

La Radiologia Medica

2024
Performance of Contrast-Enhanced Mammography (CEM) for Monitoring Neoadjuvant Chemotherapy Response among Different Breast Cancer Subtypes

Vidali S, Irmici G, Depretto C et al

Cancers

2024
How do large language models answer breast cancer quiz questions? A comparative study of GPT-3.5, GPT-4 and Google Gemini

Irmici G, Cozzi A, Della Pepa G et al

La Radiologia Medica

2025
Diagnostic performance of MRI-guided vacuum-assisted breast biopsy (VABB): an essential but still underused technique

Suman L, D'Ascoli E, Depretto C et al

Breast Cancer Research and Treatment

2025
Impact of an artificial intelligence decision support system among radiologists with different levels of experience in breast ultrasound: A prospective study in a tertiary center

Irmici G, Cozzi A, Depretto C et al

European Journal of Radiology

2025
Influence of Complete Lesion Removal During Vacuum-Assisted Breast Biopsy on the Upgrade Rate of B3 Lesions Presenting as Microcalcifications

Irmici G, Depretto C, Pinto A et al

Journal of Clinical Medicine

2026
Should AI results be disclosed in mammography reports? A randomised survey study of patient responses to concordant and discordant interpretations

Pesapane F, Depretto C, Rotili A et al

European Radiology

2026
Assessing breast MRI image quality: the bMRI-QUAL scoring system

Marziali S, Corradini L, Depretto C et al

Europena Radiology

2026
Artificial intelligence for risk-stratified breast cancer screening: a systematic review of evidence, clinical integration, and ethical implications in risk assessment tools

Pesapane F, Caumo F, Mantellini P, Irmici G et al

La Radiologia Medica

NETWORKS AND MEMBERSHIPS

01/11/2019 – CURRENT Milan
Società Italiana di Radiologia Medica ed Interventistica - SIRM

01/01/2020 – CURRENT Vienna
European Society of Radiology - ESR

01/01/2022 – CURRENT Vienna
European Society of Breast Imaging - EUSOBI

I take part in the Young Club's activities, participating in residential courses and webinars both as a speaker and presenter. I am also involved in the Instagram clinical case series as an active contributor.

01/03/2025 – CURRENT Paris
SHAIPED Consortium

I am involved, on behalf of the Fondazione IRCCS Istituto Nazionale dei Tumori di Milano, in the SHAIPED Consortium, a European initiative dedicated to developing a secure, federated space for AI in healthcare. Within the project, I contribute to the breast imaging use cases, supporting the design and validation of AI-driven clinical applications

01/01/2026
Social Media Workforce - SIRM

01/04/2026 – CURRENT
Social Media Fellow (SoMe) - EUSOBI

Social media activities focus on scientific dissemination, promotion of events, and sharing key highlights from congresses, aiming to engage the radiology community and enhance knowledge exchange in breast imaging

CONFERENCES AND SEMINARS

06/10/2022 – 09/10/2022 Rome
National Congress SIRM 2022

Speaker
Il carcinoma lobulare in Risonanza Magnetica Mammaria (RMM): caratteristiche di imaging a confronto con il carcinoma duttale

28/02/2024 – 03/03/2024 Vienna
ECR 2024

Speaker for two research presentation session:
• RPS 402 - Interventions and diagnostic scenarios in breast imaging
• RPS 1702 - B3 lesions: addressing the uncertain malignant potential management of elevated risk (high-risk) breast lesions

13/03/2024 – 13/03/2024 Online
EUSOBI Webinar series

Moderator
Back to basic: Contrast enhanced mammography

20/06/2024 – 23/06/2024 Milan
National Congress SIRM 2024

I joined as a **Faculty member** in the National Congress of Radiology organised by the Italian Society of Medical Radiology (SIRM) partecipating as a **Speaker** for:

- Contrast enhanced mammography workshop
- Oral communication about scientific projects in breast radiology

24/02/2025 – 25/02/2025 Vienna
EUSOBI Mammography & beyond Course with a special focus on AI

Speaker in multiple hands-on mammography sessions focused on case-based reading at the workstation featured by Fujifilm

26/02/2025 – 02/03/2025 Vienna
ECR 2025

- **Speaker** during the industry session presenting contrast-enhanced mammography (CEM)-guided biopsy with Fujifilm technology
- **Speaker** in the case review session of the EUSOBI Young Club with a special focus on breast sarcoma

26/10/2025 – 29/10/2025 Bari
Breast Radiology National Congress - SIRM

Speaker - Management of B3 lesion with contrast enhanced mammography

12/09/2025 – 12/09/2025 Warsaw
International mammography course - Fujifilm Poland

Speaker - Training course in mammography with focus on contrast-enhanced mammography (CEM) cases

25/09/2025 – 27/09/2025 Aberdeen
EUSOBI 2025

Speaker - during the industry session presenting contrast-enhanced mammography (CEM)-guided biopsy with Fujifilm technology

23/10/2025 – 25/10/2025 Bari
Breast Radiology - Italian National Conference SIRM

Speaker - B3 lesions management with a special focus on CEM

04/03/2026 – 07/03/2026 Vienna
ECR 2026

Presented the findings of a study exploring patients' perceptions and responses to the disclosure of AI-generated results in mammographic diagnosis
Conducted an industry workshop on BIO-CEM, including case-based discussions.

HONOURS AND AWARDS

Invest in the Youth - ECR 2022 – European Society of Radiology

Grant reserved to young radiologist for poster presentation

Invest in the Youth - ECR 2023 – European Society of Radiology

Grant reserved to young radiologist for poster presentation

Scolarship CCE Summer School 2024 – Fondazione IRCCS Istituto Nazionale dei Tumori - Milan

I was awarded a scholarship by Fondazione IRCCS Istituto Nazionale dei Tumori di Milano for the Cancer Core Europe Summer School, 2024 specifically granted to researchers under the age of 35.

Best Paper Award - 2025 – MDPI Applied Science

Best paper award for "Digital Twins: the new frontier for personalized medicine?" published in 2023

Milano 18/08/2026