

AI Health Scientific Day: Igniting Young Women Innovators in Next-Gen Healthcare

Scope

Since its inception in 2012 within the LIRE Laboratory at Constantine 2 University, the RIF conference (Research In computing At Feminine) has become a scientific forum, highlighting women's contributions to computing research. Following fourteen editions of growing success crowned by the IEEE label, the organizing committee will adopt a biennial format starting in 2027. This shift aims to enhance publication quality, deeper international collaborations, and allow more time for high-level research maturation. In this spirit of renewal, we are proud to organize the 1st edition of YoungRIF (Pre-RIF) Scientific Day, a dedicated event designed to maintain continuity between major editions and foster a vibrant research community.

YoungRIF Scientific Day stands as an academic platform dedicated to highlighting the contributions of women researchers and fostering high-level scientific dialogue on major contemporary research issues. Conceived as a preparatory event for the RIF International Conference, it promotes reflection, scholarly exchange, and networking among researchers. Organized on a biennial basis, in alternation with the RIF International Conference, the first edition of YoungRIF will take place on April 16, 2026, marking the launch of an ambitious scientific gathering devoted to enhancing the visibility and influence of women's research.

The 1st edition of YoungRIF serves as a dynamic and inclusive forum that places young women researchers at the center of discussions on the future of Artificial Intelligence in Healthcare. By gathering both emerging and established scientists, it explores how AI can be harnessed to build fair, robust, and clinically meaningful systems that benefit patients and global communities. The central guiding question of the event is: How can young women researchers leverage advanced AI architectures—from deep and generative models to federated and explainable systems—to design impactful AI solutions and open new directions in AI for health?.

Beyond its keynote talks and high-level scientific discussions, the event will feature a dedicated poster session for Master's students, offering them a unique opportunity to present their research projects, exchange ideas, and gain visibility within the scientific community. Furthermore, a hands-on workshop will be organized alongside the main program to equip participants with the necessary skills to effectively integrate Artificial Intelligence tools into all stages of their academic research and scientific projects. By fostering mentorship and technical excellence, this day aims to empower the next generation of researchers to lead the evolution of digital health.

TOPICS

Track 1

Machine Learning for Health Data

- Learning under imbalance, label noise, and distribution shifts
- Causal modeling, risk prediction, and outcome modeling in clinical and public health settings

Track 2

Deep Learning for Biomedical Imaging and Signals

- Architectures for radiology, pathology, ophthalmology, and other imaging modalities
- Deep models for physiological signals (ECG, EEG, etc.) robust to artifacts and domain shifts
- Multimodal fusion of images, signals, and structured clinical variables

Track 3

Generative AI and Synthetic Data in Health

- Generative models (VAEs, GANs, diffusion models, large generative models) for data augmentation and rare disease modeling
- Privacy-aware synthetic data generation and its limits for clinical research
- Evaluating fidelity, utility, and fairness of synthetic health data

Track 4

Federated and Distributed Learning for Medical Data

- Federated learning under strict privacy, regulatory, and governance constraints
- Robust, communication-efficient aggregation and handling of non-IID clinical data
- Frameworks for transparency, auditability, and trust in distributed health AI systems

Track 5

Explainability, Trust, and Clinical Decision Support

- Explainable AI (XAI) tailored to clinicians, patients, and regulators
- Validation of AI-based decision support in real clinical workflows and prospective settings

Track 6

Medical NLP and AI for Clinical Text and Public Health

- Information extraction, coding, and summarization from clinical narratives and EHRs
- NLP for triage, decision support, and patient communication, including low-resource languages
- Evaluation and responsible use of large language models in health contexts

IMPORTANT DATES

April 09, 2026
April 12, 2026
April 12, 2026
April 16, 2026

Extended Abstract submission deadline
Notification of Acceptance
Poster Inscription deadline
YoungRIF 2026

KEYNOTE SPEAKERS

Dr Nedjma Djezzar, Constantine 1 University, Algeria

Dr Fatima Zohra Maadoud, Constantine 2 University, Algeria

WORKSHOP ANIMATOR

Dr Wissal Sadouni, Constantine 3 University, Algeria

SUBMISSION GUIDELINES

For this edition, the focus is on concise, high-impact contributions in the form of:
Extended abstracts (limited to two (02) pages, including references, figures, and tables (in at least 10pt font and 2-columns format)) that should clearly present:

- The problem and its motivation in AI and health
- The methodological approach (model, algorithm, dataset, or conceptual framework)
- The main or anticipated results and insights

Please email extended abstracts to: rif.journee2026@gmail.com

YoungRIF'26 CHAIRS

Afifa Ghenai

Sonia Gueraich

ORGANIZING COMMITTEE CHAIRS

Afifa Ghenai

Sonia Gueraich

Adla Bentellis

ORGANIZING COMMITTEE MEMBERS

Zizette Boufaida, LIRE Laboratory, University of Constantine2, Algeria
Faiza Belala, LIRE Laboratory, University of Constantine2, Algeria
Fouzia Benchikha, LIRE Laboratory, University of Constantine2, Algeria
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POSTER CHAIRS

Adla Bentellis

Ilhem Labed

SPONSORS



YoungRIF 2026

The 1st Scientific Day on Research in computing at Feminine
April 16, 2026, University of Constantine 2 Constantine, Algeria

Scientific Day Joining Young Women Innovators in Next-Gen Healthcare Program

YoungRIF Chairs

Dr Afifa Ghenai

Dr Sonia Gueraich

Conference
room,
Campus Lab



PROGRAM

YoungRIF 2026 - Thursday, April 16, 2026

8h30–9h00	Opening Ceremony
9h00–9h30	KEYNOTE 1: Dr. Nedjma Djezzar Constantine 1 University, Algeria " AI in medicine transforming healthcare through Intelligent systems "
	Session 1: Conference Room, Campus Lab Chair: Dr. Rachida Boucebsi
9h30–9h40	KEYNOTE1 DEBATE
9h40–9h50	“Patient-Guided Multimodal Deep Learning for Personalised and Explainable Medical Diagnosis”, Roumeissa Sekhri, Mohamed Nadjib Boufenara, Zizette Boufaïda (LIRE Lab)
9h50–10h00	“A Multi-Stage Preprocessing for Retinal Blood Vessel Contrast Enhancement”, Safia Bouleghlimat, Afifa Ghenai, Samir Brahim Belhaouari (LIRE Lab)
10h00–10h10	“Multimodal Clinical Decision Support in Emergency Medicine: Early Prediction of Patient Deterioration Using AI, Cloud Computing”, Hadil Nahoui , Nassima Bouchareb, Meriem Kermani (LIRE Lab)
10h10–10h30	SESSION DEBATE
10h30–11h00	COFFEE BREAK & POSTER SESSION
11h00–11h30	KEYNOTE 2: Dr. Fatima Zohra Maadoud Constantine 2 University, Algeria " Soigner à l'ère de l'intelligence artificielle : quelle place pour l'humain ? "
	Session 2: Conference Room, Campus Lab Chair: Dr. Souad Bouaïcha
11h30–11h40	KEYNOTE2 DEBATE
11h40–11h50	“Towards Fault-Tolerant Medical Cyber-Physical Systems”, Rayene Chabani, Fateh Latreche, Karim Zarour (LIRE Lab)
11h50–12h00	“Towards Robust Intrusion Detection in the Internet of Medical Things using Artificial Intelligence”, Nour El Yakine Guerras, Afifa Ghenai, Samir Brahim Belhaouari (LIRE Lab)
12h00–12h10	“AI-Driven Magnetic Microrobots for Targeted Drug Delivery in Hepatocellular Carcinoma”, Rayene Meghlaoui, Ilham Kitouni, Rostom Mennour (LISIA Lab)
12h10–12h20	“Multimodal Data Integration in Cancer Research: A Review of AI Fusion Strategies and Challenges”, Lamis Meghlaoui, Mohamed Ali Bouanaka, Kamal Hamaz (LIRE Lab)
12h20–12h40	SESSION DEBATE
12h40	CLOSING CEREMONY AND LUNCH

KEYNOTE SPEAKERS

Dr Nedjma Djezzar is an assistant professor at **University of Constantine 1, Algeria**. She got her Ph.D. degree in computer science (Artificial Intelligence specialty) from **University of Toulouse Capitole (France)**. She is a member of **LIRE** laboratory of the **University of Constantine 2**. Her research experience allows her to be a versatile researcher. She has published her work in top-tier venues in the field of **Artificial Life**.



Dr Nedjma Djezzar
Researcher at Constantine 1 University,
Algeria

Dr Fatima Zohra Maadoud is a medical doctor and a psychotherapist based in Algeria. She holds a Master's degree in Clinical Psychology and a diploma in psychotherapy awarded by the **Institute NeuroHeal (INH), France**. She works at **Constantine 2 University** and focuses on mental health and the human dimension of healthcare.



Dr Fatima Zohra Maadoud
Doctor at Constantine 2 University,
Algeria

Igniting Young Women
in Next-Gen Healthcare





YoungRIF 2026

The 1st Scientific Day on Research in Computing at Feminine
University of Constantine 2, Constantine Algeria

WORKSHOP

Practical AI Tools *for Scientific Research*

Workshop for Women Researchers



Led by **Dr. Ouissal SADOUNI**

Researcher at University of Constantine 3

Assistant Professor at university of Constantine 3

Head of the AI House of University of Constantine 3

📍 **FABLAB Room Incubator of UC2 Campus**
Tuesday April 14th, 2026 at 9h00





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YoungRiF 2026

The 1st Scientific Day on Research in computing at Feminine
April 16, 2026, University of Constantine 2 Constantine, Algeria

keynote speakers



Dr. Nedjma DJEZZAR

Researcher at Constantine 1 University

**"AI in medicine transforming healthcare
through Intelligent Systems"**



Dr. Fatima Zohra MAADOUD

Doctor at Constantine 2 University

**"Soigner à l'ère de l'Intelligence
Artificielle: Quelle place pour l'humain?"**

**Conference Room, Lab Campus
16th April 2026, at 08:30 AM**

