



# Riccardo Liga

[Redacted contact information]

## ● WORK EXPERIENCE

07/2017 – CURRENT Pisa, Italy

**CARDIOLOGIST** AZIENDA OSPEDALIERO-UNIVERSITARIA PISANA (UNIVERSITY HOSPITAL OF PISA)

Full time clinical Cardiologist with extensive competence in:

- Non-invasive cardiac imaging (Nuclear cardiology, Echo, CT)

and in charge of the:

- Heart failure and cardiomyopathy outpatient clinic

Head of the Unit: Prof. Raffaele De Caterina

03/01/2021 – 03/01/2024 Pisa, Italy

**RESEARCHER** UNIVERSITY OF PISA

Department of "Surgical, Medical, and Molecular Pathology and Critical care"

Discipline: Cardiovascular medicine

## ● EDUCATION AND TRAINING

06/06/2022 – CURRENT

**NATIONAL SCIENTIFIC HABILITATION FROM THE "MINISTRY OF EDUCATION AND RESEARCH" (ASSOCIATE PROFESSOR) IN CARDIOLOGY**

10/2016 – 12/2019 Pisa, Italy

**PHD IN "CLINICAL PATHOPHYSIOLOGY" WITH FULL HONORS** University of Pisa

Research project on multimodality cardiac imaging (Nuclear cardiology, CT, echocardiography): *"The Interaction between Cardiac Sympathetic Tone and Left Ventricular Hypertrophy in Patients with Severe Aortic Stenosis undergoing Trans-catheter Aortic valve Implantation"*

Supervisors: Prof. Anna S. Petronio; Dr. Alessia Gimelli

06/2011 – 07/2016 Pisa, Italy

**DOCTOR IN CARDIOVASCULAR MEDICINE WITH FULL HONORS** University Hospital of Pisa

Supervisor: Prof. Mario Marzilli

02/2014 – 03/2015 Zurich, Switzerland

**RESEARCH AND CLINICAL FELLOWSHIP IN CARDIAC IMAGING (SPECT, PET, CT, MRI)** Universitätsspital Zürich (University Hospital of Zurich)

Clinical and research expertise in cardiac imaging: SPECT, PET, CT, CMR.

Supervisor: Prof. Philipp A. Kaufmann

31/08/2004 – 31/08/2010 Pisa, Italy

**DEGREE IN MEDICINE WITH FULL HONORS** University of Pisa

07/2008 – 10/2008 Toronto, Canada

**RESEARCH FELLOWSHIP IN EXPERIMENTAL ELECTROPHYSIOLOGY** Sick Children Hospital

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Supervisor: Prof. Robert Hamilton

08/2004 – 07/2010 Pisa, Italy

**DEGREE IN MEDICAL SCIENCES WITH FULL HONORS** Scuola Superiore Sant'Anna

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Supervisors: Dr. Danilo Neglia; Prof. Antonio L'Abbate; Prof. Flavio Cocceani

06/2009 – 08/2009 London, United Kingdom

**RESEARCH FELLOWSHIP IN CARDIAC IMAGING** Cyclotron Unit, Imperial College

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Advanced training in cardiac PET

Supervisor: Prof. Paolo G. Camici

## ● LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>GERMAN</b>	C1	B2	B1	B1	B1
<b>ENGLISH</b>	C2	C2	C1	C2	C2

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

## ● DIGITAL SKILLS

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excellent command of Microsoft Office™ tools | excellent command of the main Statistical Software packages

## ● EDITORIAL BOARD MEMBERSHIPS

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**Member of the Editorial Board of the following international scientific journals:**

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**Editorial board member:**

**From 2023:** Deputy Editor of the **European Heart Journal - Imaging Methods and Practice** ("Nuclear cardiology" section) (Editor-in-Chief: Dr. Alessia Gimelli). Online ISSN 2755-9637

**From 08/2019:** Deputy Editor of the **European Heart Journal - Case Reports** ("Coronary Intervention" section) (Editor-in-Chief: Dr. Philipp Sommer). IF: 1. E-ISSN: 2514-2119.

**From 10/2021:** Associate Editor of **Frontiers in Cardiovascular Medicine** (Specialty: Cardiovascular Imaging). IF: 3.6. E-ISSN: 2297-055X.

**From 08/2023:** Associate Editor of **Frontiers in Cardiovascular Medicine** (Specialty: Heart Failure and Transplantation). IF: 3.6. E-ISSN: 2297-055X.

**From 05/2020:** International Editorial Board member of "**Imaging**" (**AK Journals**) (Editor-in-Chief il Prof. Pál Maurovich-Horvat). E-ISSN: 2732-0960.

**From 02/2019 to 10/2021:** Review Editor of **Frontiers in Cardiovascular Medicine** (Specialty: Cardiovascular Imaging). E-ISSN: 2297-055X.

**From 07/2017 to 07/2019:** Associate Editor of the **European Heart Journal - Case Reports** (Editor-in-Chief: Prof. A. John Camm). E-ISSN: 2514-2119.

**Guest Editor:**

Special issue on "Valvular Heart Disease" (2024) of the **European Heart Journal - Imaging Methods and Practice** (Editor-in-Chief: Dr. Alessia Gimelli). Online ISSN 2755-9637. Section editors: **Riccardo Liga**, Elena Galli, Oliver Gaemperli

## ● NETWORKS & MEMBERSHIPS

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**Involvement in scientific societies**

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### Involvement in scientific societies:

- **Association of Cardiovascular Imaging (EACVI) committee member:**
  - a. Board member (2022-ongoing) of the EACVI as "Councillor of the Nuclear cardiology and Cardiac CT section"
  - b. Heart Imagers of Tomorrow: 2016-2020 (Chair: Dr. Matteo Cameli)
  - c. Certification and Accreditation: Nuclear cardiology Sub-committee 2020-2024 (Chair: Dr. R. Buechel)
  - d. Certification and Accreditation: Cardiac CT Sub-committee 2020-2024 (Chair: Prof. M. Dweck)
- EACVI Ambassador for Italy of the "Heart Imagers of Tomorrow" (HIT) program.
- Section member: "**Nuclear Cardiology and Cardiac CT**" of the EACVI.
- **Councillor:** "Sezione Regionale Tosco – Umbra" of the Italian society of Cardiology
- **Past secretary and vice-coordinator:** "Section for Hypertension, Prevention and Peripheral circulation" of the Italian Society of Cardiology

Question setter for the:

- Nuclear Cardiology Knowledge Self-Assessment Program - America Society of Nuclear Cardiology" (Supervisor: Prof. D. E. Winchester)
- Cardiac Computed Tomography Certification Exam – ESC/EACVI (Supervisor: Dr. G Pontone)
- Nuclear Cardiology Certification Exam - EACVI/EANM (Supervisor: Prof. S. R. Underwood)

## ● **COMMUNICATION AND INTERPERSONAL SKILLS**

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### **Communication and interpersonal skills**

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Invited speaker and/or moderator in national and international congresses including the:

- Association of Cardiovascular Imaging (EACVI) congress (10/05/2023-12/05/2023)
- American College of Cardiology: Middle East and Eastern Mediterranean Chapter (03/11/2023-05/11/2023)
- American College of Surgeons: General Surgery Review Course (16/09/2023-17/09/2023)
- European Society of Cardiology Congress: Barcelona (26/08/2017-30/08/2017); E-congress (27/08/2021 - 30/08/2021)
- International Conference of Nuclear cardiology and Cardiac CT: Vienna (07/05/2017 - 09/05/2017); Lisbon (12/05/2019 - 14/05/2019); E-congress (09/05/2021 - 11/05/2021)
- Euroecho-Imaging congress: (Lisbon 06/12/2017 - 09/12/2017); Milan (05/12/2018 - 08/12/2018)
- European association of Nuclear Medicine (EANM) congress: Virtual congress (20/10/2021 - 23/10/2021)
- Brainstorming in Nuclear Cardiology and Cardiac CT of the EACVI: Suonio (03/10/2016 - 05/10/2016); Valencia (25/10/2018 - 27/10/2018); Bruxelles (24/10/2019 - 25/10/2019)
- National congress of the Italian Society of Cardiology: Rome (10/12/2019 - 15/12/2019); E-congress (17/12/2020 - 20/12/2020); (15/12/2022-18/12/2022)
- Relatore invitato al convegno del "Gruppo Italiano di Cardiologia Nucleare del 2015 (GICN 2015)" (Lucca, 05/11/2015 - 07/11/2015) con la relazione dal titolo: "Imaging di dissincronia: indicazioni cliniche".

## ● **RESEARCH INTERESTS**

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### **Fields of research and participation to clinical studies**

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I am active in clinical research, particularly in the fields of chronic coronary syndromes, cardiovascular risk factors, and non-invasive cardiac imaging.

I have contributed to national and international pre-clinical and clinical studies including the "**Evaluation of Cardiac Imaging for the Detection and Characterization of Ischemic Heart Disease (EVINCI)**" study (FP7-CP-FP506 2007), the "**Simulation Modeling of Coronary Artery disease (SMARTool)**" study (Horizon 2020 research and innovation program grant number 689068), and the "**European Registry of Cardiovascular Imaging – EURECA Imaging**" registry (EUObservational Research Programme".

- Co-principal investigator of the Hybrid imaging corelab of the EVINCI study (Study Chairs: Dr. D. Neglia, Dr. J. Knuuti, Prof. SR. Underwood)
- Scientific Committee Member of the "European Registry of Cardiovascular Imaging – EURECA Imaging" (Study Chairs: Dr. D. Neglia and Dr. V. Delgado)

## ● **PUBLICATIONS**

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### **Publications**

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Author of >100 papers published in international peer-reviewed journals, including the: "**European Heart Journal**", "**European Heart Journal - Cardiovascular Imaging**", "**European Heart Journal - Imaging Methods and Practice**", "**JACC Cardiovascular Imaging**", "**Radiology**", "**The Journal of Nuclear Cardiology**", "**Atherosclerosis, Thrombosis & Vascular Biology**", "**The Journal of Nuclear Medicine**", "**The American Journal of Cardiology**", "**The European**

**Journal of Nuclear Medicine and Molecular Imaging", "The International Journal of Cardiovascular Imaging"; "Frontiers in Cardiovascular Medicine: Cardiovascular Imaging".**

Co-Author of 6 book chapters on cardiac imaging and clinical cardiology, including:

- "Basic principles and technological state of the art: SPECT", chapter of the "ESC CardioMed (3 edn): Section 13 Nuclear cardiology and positron emission tomography"; Editors: Proff. A. John Camm, Thomas F. Lüscher, Gerald Maurer, and Patrick W. Serruys. ISBN: 9780198784906. DOI: 10.1093/med/9780198784906.003.0119\_update\_001.
- "Nuclear cardiology (PET and SPECT)—basic principles", chapter of "The ESC Textbook of Cardiovascular Imaging (3 ed.); Editors: Proff. Jose Luis Zamorano, Jeroen Bax, Juhani Knuuti, Patrizio Lancellotti, Fausto Pinto, Bogdan A. Popescu, and Udo Sechtem. ISBN: 9780198849353. DOI: 10.1093/med/9780198849353.003.0002.
- 'Imaging Dyssynchrony', in Ami E. Iskandrian, and Fadi G. Hage (eds), Nuclear Cardiac Imaging: Principles and Applications, 6 edn (New York, 2024; online edn, Oxford Academic, 1 Jan. 2024), <https://doi.org/10.1093/med/9780190095659.003.0020>, accessed 18 May 2024.
- "Approaches to minimize patient dose in nuclear cardiology", chapter of the "Nuclear Cardiology and Multimodal Cardiovascular Imaging: A Companion to Braunwald's Heart Disease"; Editor: Prof. Marcelo F. Di Carli. ISBN: 9780323763035.

**H-index (Scopus) 23; H-index (Google Scholar) 27; Total citations (Scopus) 1496**

## ● **REVIEWER FOR INTERNATIONAL JOURNALS**

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### **Reviewer of international journals in the field of cardiology, cardiovascular imaging and internal medicine**

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- European Heart Journal - Cardiovascular Imaging
- European Heart Journal - Imaging Methods and Practice
- The International Journal of Cardiology
- The Journal of Nuclear Cardiology
- Atherosclerosis
- Frontiers in Cardiovascular Medicine: Cardiovascular Imaging
- Cardiology Journal
- Kidney and Blood Pressure Research
- European Heart Journal - Case Reports
- Scientific reports

## ● **HONOURS AND AWARDS**

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### **Awards**

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- Fellow of the European Society of Cardiology (FESC) for scientific excellence
- Recipient of the 2017 "S. De Tommasi prize", awarded in Pisa
- Abstract selezionato per la sessione "Advances in Science" del congresso ESC 2017 (Barcellona 26/08/2017-30/08/2017) ed oggetto di una relazione orale dal titolo "Anatomic and functional imaging to predict long-term outcome and benefits of early revascularization in patients with suspected coronary artery disease: results from the EVINCI study.". Sessione "CAD Prognosis: is CT the new crystal Ball".
- Young Investigator Award for "Innovative research in Nuclear Cardiology" awarded by the "Nuclear cardiology & Cardiac CCT of the European Association of Cardiovascular Imaging (EACVI)" during the "EACVI Brainstorming Meeting" (Suonio 03/10/2016 - 05/10/2016)
- Reviewer Award 2018-2019 of the "European Heart Journal - Case Reports" (Oxford University Press; E-ISSN: 2514-2119)
- Reviewer Award 2019-2020 of the "European Heart Journal - Case Reports" (Oxford University Press; E-ISSN: 2514-2119)
- Editor of the Year Award 2018-2019 of the "European Heart Journal - Case Reports" (Oxford University Press; E-ISSN: 2514-2119)

## ● **JOB-RELATED SKILLS**

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### **Job-related skills**

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**AHA certified provider of "Advanced Cardiac Life Support (ACLS)" and instructor of "Basic Life Support (BLS)" Certified in trans-thoracic echocardiography from the European Society of Cardiology.**

Advanced experience in vascular echography.