ANDREAS GIANNOPOULOS, MD, PhD

Personal Information

Name: Andreas Giannopoulos



Current position:

Attending Physician, Cardiac Imaging, Department of Nuclear Medicine, University Hospital Zurich Director, *Coronary Atherosclerosis Biomechanics Lab*, Department of Nuclear Medicine, University Hospital Zurich Researcher IDs: GoogleScolar ID: 89KI9mEAAAAJ; ORCID iD: https://orcid.org/0000-0002-938-3170

Education

2021	Board certification (SIWF/FMH) Cardiology
2018	Doctor of Medicine-Dr. med. , University of Zurich Medical School Thesis: "Ultra-low dose computed tomography for attenuation correction of cadmium-zinc-telluride single photon emission computed tomography myocardial perfusion imaging" Candidate Dissertation of the Year (Jahrespreis)
2018	Doctor of Philosophy-PhD (Dr. sc. med.) , School of Medicine, Aristotle University of Thessaloniki <i>Thesis:</i> "The Role of Optical Coherence Tomography in the Identification of the Vulnerable Plaque" <i>Grade:</i> "Summa cum laude"
2008	Medical Doctor-MD , School of Medicine, Aristotle University of Thessaloniki <i>Grade: "Magna cum laude"</i>

Research Experience		
2023 – today	Wissenschaftlicher Oberarzt; Director Coronary Atherosclerosis Biomechanics Lab, Department of Nuclear Medicine, University Hospital Zurich	
2016 - 2017	Research Associate at University of Zurich. Director: Prof. Kaufmann P.	
2014 - 2016	Postdoctoral researcher at Applied Imaging Science Lab, Radiology Department, Brigham and Women's Hospital, Boston, MA, USA. Director: Prof. Rybicki F.	
2014 - 2016	Postdoctoral researcher at Harvard Medical School, Boston, MA, USA	
2008 – 2014	Research Associate at Cardiovascular Engineering and Atherosclerosis Lab, AHEPA University Hospital, School of Medicine, Aristotle University of Thessaloniki. Director: Prof. Giannoglou G.	

Clinical Experience

2021- 10uay	Attending physician, Cardiac imaging, Department of Nuclear Medicine, 032
2018- 2021	Resident in Cardiology, Cardiology Department, USZ
2017- 2018	Deputy attending physician in Nuclear Cardiology, Department of Nuclear Medicine, USZ
2016- 2017	Resident in Nuclear Cardiology, Department of Nuclear Medicine, USZ
2011- 2013	Resident in Internal Medicine, Internal Medicine Department, General Hospital of Kozani "Mamatsio", Kozani, Greece
2011- 2013	Primary care physician, in underserved Areas, Livadero, Kozani, Greece
2010	Resident in Internal Medicine, St. Marien Hospital, Oberhausen, Germany
2008- 2009	Military physician - Obligatory Medical Service in the Hellenic Army, Greece

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Institutional Responsibilities

2021- today

Clinical reporting in nuclear cardiology (SPECT and PET), cardiac CT and hybrid imaging (SPECT/CT, PET/CT). Clinical training of residents and cardiovascular imaging fellows.

Member of the Hybrid and Molecular Cardiac Imaging research group with active involvement in all aspects of the ongoing research projects (ethics' preparation, grant proposals, patients' enrollment, statistical analysis, manuscripts' preparation)

Approved Research Projects

2022 Principle Investigator. Promedica Stiftung (*Wissenschaftlicher Oberarzt*).

Establishment of the Coronary Atherosclerosis Biomechanics Laboratory

Grant ID: 1615/M. Approved amount: CHF 280'000

2022 Principle Investigator. Iten-Kohaut Stiftung.

Establishment of the Coronary Atherosclerosis Biomechanics Laboratory

Grant ID: 1615/M. Approved amount: CHF 120'000

2021 Co-Investigator. Swiss National Science Foundation (SNF).

Noninvasive anatomical assessment for ruling out hemodynamically relevant coronary artery anomalies – A comparison of coronary-CT to invasive coronary angiography (NARCO). Grant ID: 200871. https://p3.snf.ch/Project-200871. Approved amount: CHF 323'461

2018 Co-Investigator. Iten-Kohaut-Foundation.

Computational Flow Simulations in Coronary Arteries to Assess Coronary Atherosclerosis

Manifestation and Progression.

https://usz-foundation.com/en/preventing-infarction/. Approved amount: CHF 169'050

2014 Co-Investigator. Hellenic Society of Cardiology.

Localization of Vulnerable Atherosclerotic Plaques in Humans by Assessing Local Shear Stress for

Defining Severity of Inflammation.

Grant ID: 50379. Approved amount: EUR 5'000

Supervision Activity

Postdoc Alexia Rossi, MD, PhD (University Hospital Zurich, 2023)

Monika Meredziak, PhD (University Hospital Zurich, 2018-2021) Georgios Rampidis, MD (University Hospital Zurich, 2018) Anjie Tang, MD (Brigham and Women's Hospital, 2015-2016)

PhD Anselm Stark, MD (University of Bern, 2021-today)

Doctoral Thesis Basil Bolt, MD (UZH, 2018-2022), Zdenek Steffek, MD (UZH, 2023-today)

Master

Basil Bolt, MD (UZH, 2016-2018), Kristina Krebs (UZH, 2023-today), Jens Suter (UZH 2024-today)

Thesis

Teaching Activity

2024-today Co-Organizer. PhD-Programme Imaging Sciences in Medicine, UZH. Modules: Nuclear Medicine:

Multimodality, Cardiac Imaging and PET Imaging

2020-today Regular theoretical and practical/clinical lectures in cardiology, echocardiography, and nuclear

cardiology for medical students at the University of Zurich

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2016-today Lectures on nuclear cardiology and cardiovascular imaging for nuclear cardiology residents,

radiology residents and cardiology residents as well as to attendees of the cardiovascular imaging

fellowship at the Department of Nuclear Medicine, USZ

2018 Workshop Instructor. Mitral and Tricuspid Valve Bioskills. At Mitral Valve Meeting 2018, Zurich

2015-2017 Course Organizer/Instructor. RSNA Hands-on Courses - Teaching Congenital Heart Disease with

3D Printed Models. At RSNA congresses for the years 2015-2017, Chicago, USA

2016 Course Organizer/Instructor. RSNA Hands-on Courses - Patient-Specific Blood Flow Analyses

using CFD. At RSNA congress 2016, Chicago, USA

2016 Course Instructor. Hands-on Morphology Session with 3D Print Models: Double Outlet Right

Ventricle. At AHA congress 2016, New Orleans, USA

2015 Course Instructor. 3D Printing Hands-On Training Course. At RSNA congress 2015, Chicago, USA

Scientific Reviewing Activity

Journal

Associate Editor European Heart Journal-Imaging Methods and Practice (since 2023)

European Heart Journal Case-Reports (since 2022)

3D Printing in Medicine (since 2015)

Ad-hoc Reviewer Circulation CV Imaging (since 2023)

Academic Radiology (since 2023) European Heart Journal (since 2022)

Frontiers in Cardiovascular Medicine (since 2021) International Journal of Cardiology (since 2018)

Journal of Cardiac Computed Tomography (since 2017)

EuroIntervention (since 2017)

Journal of Nuclear Cardiology (since 2017)

European Heart Journal Cardiovascular Imaging (since 2017)

JACC Cardiovascular Imaging (since 2017) Cardiology Research and Practice (since 2017)

Angiology (since 2016)

International Journal of Cardiovascular Imaging (since 2016)

Current Atherosclerosis Reports (since 2016) Computers in Medicine and Biology (since 2014)

Atherosclerosis (since 2014)

Pharmacology and Therapeutics (since 2011)

Memberships

2022 2024

2022-2024	Member of the LACVI industry Notific Table Committee
2020-2024	Member of the EACVI Certification Nuclear Cardiology sub-committee
2018-2024	Member of the EACVI CCT Certification sub-committee

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2020-today Member of the Swiss Society of Cardiology
2020-today Member of the Society of Cardiologists Zurichs
2020-today Member of the Swiss Cardiologists of Tomorrow
2017-today Member of the ESC Working Group on e-Cardiol

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2017-today Member of the ESC Working Group Atherosclerosis & Vascular Biology2016-today Silver member of the European Association of Cardiovascular Imaging

2016-today Professional member of the American Heart Association

2015-2020 Member of the Radiological Society of Northern America—3D Printing Special Interest Group 2014-2022 Member of the Radiological Society of Northern America Member 2013-today Professional member of the European Society of Cardiology

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2013-today Member of the Hellenic Society of Cardiology

Organization of Conferences

2024	Co-Organizer/Faculty Member. EACVI Cardiac Computed Tomography Course 2024, September

2024, Milan, Italy

2023-2024 ESC Delegated Twitter Ambassador for the International Conference on Nuclear

Cardiology and Cardiac CT (ICNC-CT) 2024 congress in Seville, Spain

2023-2024 Member of the Scientific Programme Committee for the International Conference on Nuclear

Cardiology and Cardiac CT (ICNC-CT) 2024 congress in Seville, Spain

2023 ESC Delegated Twitter Ambassador for the *EACVI Congress 2023*, in Barcelona, Spain

2019-2023 Member of the Scientific Program Committee for the *Additive Manufacturing Meets Medicine*

congresses for the years 2019, 2020, 2021, 2022 in Luebeck, Germany

2020 Co-organizer/Faculty Member of Session 3D Print and Virtual Reality in CHD for the *11th*

EuroGUCH Meeting 2020, in Leuven, Belgium (cancelled due to CoviD-19 pandemic)

2019-2021 ESC Delegated Twitter Ambassador for the *International Conference on Nuclear Cardiology and*

Cardiac CT (ICNC-CT) congresses for the years 2019 (in Lisbon, Portugal) and 2021 (online)

Awards, Fellowships, Certifications

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2022 Leaders of Tomorrow Academy, EACVI

2022 EACVI Certification in transthoracic echocardiography

2019 Young Investigator Award Runner Up, ICNC 2019, Lisbon, Portugal

2019 Young Investigator Award, EACVI Brainstorming Meeting 2018, Valencia, Spain

2018 EACVI Certification in cardiac CT (Level III)

2017 Student Travel Award for Young Investigators, RSNA 2017, Chicago, USA

2017 Certificate of Merit Award, RSNA 2017, Chicago, USA

2016 Magna Cum Laude, RSNA 2016, Chicago, USA

2016 Young Investigator Award Runner Up, ESC 2016, Rome, Italy

2016 Visiting Fellow, Cardiology Department, USZ, Zurich

2015 Young Investigator Award Runner Up, ESC 2015, London, UK

2014 Young Investigator Award, AISL, Brigham and Women's Hospital

2013 Best Poster Award, GD Behrakis Cardiovascular Symposium in Vascular Biology 2013, Boston, USA

2012 Moderated Poster Award, ESC 2012, Munich, Germany

Language Skills

Greek: native speaker

German: highly proficient in speaking and writing **English:** highly proficient in speaking and writing