

Damiano Caruso

Curriculum Vitae

Rome
22.09.2021

Part I – General Information

Full Name	Damiano Caruso
Date of Birth	22/10/1985
Place of Birth	Rome
Citizenship	Italian
Spoken Languages	Italian, english

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2010	“Sapienza” University of Rome.	Graduation in Medicine and Surgery, 110/110 cum laude
Licensure	2011	“Sapienza” University of Rome.	Licensure at the Medical, Surgical and Odontologists Board of Rome.
Specialty	2016	“Sapienza” University of Rome.	Residency School in Radiology, 70/70 cum laude,
Post graduate	2015-2016	Medical University of South Carolina (MUSC), Charleston, SC, USA.	Research Fellow in “Cardiovascular Imaging”, Medical University of South Carolina (MUSC), Charleston, SC, USA. Director Prof. U. Joseph Schoepf.
Abilitation	2019	ASN - MIUR	National Scientific Qualification, Assistant Professor (ASN 2018-2020, Sector 06,I1)
PhD	2021	“Sapienza” University of Rome.	Sperimental Medicine, Clinical Medicine and Molecular Department
Assistant Professor	2021	“Sapienza” University of Rome.	Department of Surgical and Medical Sciences and Translational Medicine, Sant’Andrea Academic Hosiptal, “Sapienza” University of Rome.

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2017	Today	“Sapienza” University of Rome.	Assistant Professor in Diagnostic Imaging and Radiotherapy – Graduating Class in Medical Radiology, Imaging and Radiotherapeutic Techniques, Class– D; University of Rome, sited in Latina.
2019	Today	University of Pisa.	Assistant Professor in Master of Oncologic Imaging, Department of Translational Medicine and New Technology in Medical and Surgical Sciences, University of Pisa.
2020	Today	“Sapienza” University of Rome.	Assistant Professor in Integrated Course of “Diagnostic Imaging in medical practice”, Faculty of Medicine and Psychology, “Sapienza” University of Rome.

IIIB – Other Appointments

Start	End	Institution	Position
2018	Today	BMC Medical Imaging	Editorial Board
2018	Today	JTD Journal of Thoracic Disease	Editorial Board
2020	Today	Biomed Research International	Editorial Board
2020	Today	Insights into Imaging	Editorial Board
2020	Today	Diagnostics	Editorial Board
2021	Today	Diagnostics	Editor of Special issue
2021	Today	Cancers	Editor of Special issue

Part IV – Teaching experience

Year	Institution	Lecture/Course
2019	University of Pisa	Imaging response to therapy
2020	University of Pisa	Artificial intelligence in rectal cancer
2020	European Society of Radiology	DWI in oncology
2021	European School of Radiology	Dual Energy CT
2020	ESGAR	Dual Energy CT – made it easy
2020	ESOI	COVID-19 and Oncology: an unwanted wedding

Part V - Society memberships, Awards and Honors

Year	Title
2017	Chairperson of Regional Junior Members of SIRM
2017	Chairperson Young Radiologist Committee ESOI – European Society of Oncologic Imaging.
2017	ESOI Board Member Executive Committee
2020	Member of National Young SIRM
2020	Member of ESGAR Educational Committee - European Society of Gastrointestinal and Abdominal Radiology.
2020	Coordinator of Young ESGAR - European Society of Gastrointestinal and Abdominal Radiology.
2021	ESR Scientific Subcommittee member
2011	“Invest in the youth” del ESCR, European Society of Cardiac Radiology
2013	“Invest in the youth” del ECR, European Congress of Radiology
2014	Winner of I edition of “Premio Passariello” of SIRM.
2016	Top 20 Presenter ESGAR 2016
2017	Travel Award RSNA 2017
2017	AuntMinnie RSNA Roadie CT Winner 2017

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2012	Investigator	CT-CON “CT Coronary Angiography- Effect of Iodine CONcentration on Vascular Attenuation”	
2013	Investigator	X-ACT “Xenetix® 350 comparative assessment of image quality for coronary ct angiography”	
2018	Principal Investigator	Analisi texture TC: previsione della risposta all’immunoterapia nei Pazienti con cancro del polmone e correlazione con i criteri iRECIST. Progetto Avvio alla Ricerca, “Sapienza” University of Rome.	1.000
2019	Investigator	Radiomics for Response and Outcome Evaluation in Non-Small Cell Lung Cancer treated with Immunotherapy. Progetti di Ricerca Medi,	11.000

		“Sapienza” University of Rome.	
2020	Investigator	ADRENALIN - rADiogenomic in ColoREctal Cancer: aN Artificial Intelligence approach. Progetti di Ricerca Grandi, “Sapienza” University of Rome.	40.000
2020	Investigator	CHAIMELEON “Accelerating the lab to market transition of AI tools for cancer management” – Horizon 2020	8.784.038
2020	Investigator	AIRC IG 2020 – ID 24974 “ATTRACT - ArTificial inTelligence-based RAdiogenomics in Colon Tumors”	965.000

Part VII – Research Activities

Keywords

Brief Description

Artificial Intelligence	Dr. Caruso’s research activities are based on radiomics, artificial intelligence, oncologic and abdominal radiology with great attention in CT and MRI. He is active participant of Tumor Board. Dr. Caruso is the Chairman of the Young Radiologist Committee of the European Society of Oncologic Imaging (ESOI) and part of the Young ESGAR and ESGAR Educational Committee. He is member of the Radiological Society of North America (RSNA), European Society of Radiology (ESR), Italian Society of Medical Radiology (SIRM), National Union of Radiology (SNR), European Society of Gastrointestinal and Abdominal Radiology (ESGAR) and European Society of Oncologic Imaging (ESOI).
Abdominal Imaging	
Oncologic Imaging	
Thoracic Imaging	
Radiomics	
CT, MRI	

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	77	Scopus, Pubmed	2011	Today
Papers [national]	0			
Books [scientific]	0			
Books [teaching]	5	Scopus	2012	Today

Total Impact factor	257,69
Total Citations	1345
Average Citations per Product	17,5
Hirsch (H) index	19

Normalized H index*

1,9

*H index divided by the academic seniority.

Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

N	Title	Authors	Reference data	Journal IF	Citations
1	Chest CT Features of COVID-19 in Rome, Italy.	Caruso D , Zerunian M, Polici M, Pucciarelli F, Polidori T, Rucci C, Guido G, Bracci B, de Dominicis C, Laghi A.	Radiology. 2020 Aug;296(2):E79-E85	11,1	277
2	Postacute Sequelae of COVID-19 Pneumonia: 6-month Chest CT Follow-up.	Caruso D , Guido G, Zerunian M, Polidori T, Lucertini E, Pucciarelli F, Polici M, Rucci C, Bracci B, Nicolai M, Cremona A, De Dominicis C, Laghi A.	Radiology. 2021 Jul 27:210834.	11,1	0
3	Visceral fat shows the strongest association with the need of intensive Care in Patients with COVID-19.	Watanabe M, Caruso D , Tuccinardi D, Risi R, Zerunian M, Polici M, Pucciarelli F, Tarallo M, Strigari L, Manfrini S, Mariani S, Basciani S, Lubrano C, Laghi A, Gnessi L.	Metabolism. 2020 Jul 23:154319	8,6	56
4	Diffusion-Weighted Imaging in Oncology: An Update.	Messina C, Bignone R, Bruno A, Bruno A, Bruno F, Calandri M, Caruso D , Coppolino P, Robertis R, Gentili F, Grazzini I, Natella R, Scalise P, Barile A, Grassi R, Albano D.	Cancers (Basel). 2020 Jun 8;12(6):1493	6,6	20
5	Involvement of radiologists in oncologic multidisciplinary team meetings: an international survey by the European Society of Oncologic Imaging.	Neri E, Gabelloni M, Bäuerle T, Beets-Tan R, Caruso D , D'Anastasi M, Dinkel J, Fournier LS, Gourtsoyianni S, Hoffmann RT, Mayerhöfer ME, Regge D, Schlemmer HP, Laghi A.	Eur Radiol. 2020 Aug 24	5,3	2
6	Artificial intelligence in cardiac radiology.	van Assen M, Muscogiuri G, Caruso D , Lee SJ, Laghi A, De Cecco CN.	Radiol Med. 2020 Nov;125(11):1186-1199	3,4	5
7	How new technologies could impact on radiology diagnosis and assessment of pancreatic lesions: Future perspectives.	Laghi A, Zerunian M, Caruso D .	Endosc Ultrasound. 2018 Sep-Oct;7(5):310-313	2,8	2
8	Radiomics in Oncology, Part 1: Technical Principles and Gastrointestinal Application in CT and MRI.	Caruso D , Polici M, Zerunian M, Pucciarelli F, Guido G, Polidori T, Landolfi F, Nicolai M, Lucertini E, Tarallo M, Bracci B, Nacci I, Rucci C, Iannicelli E, Laghi A.	Cancers (Basel). 2021 May 21;13(11):2522	6,6	0
9	Radiomics in Oncology, Part 2: Thoracic, Genito-Urinary, Breast, Neurological, Hematologic and Musculoskeletal Applications.	Caruso D , Polici M, Zerunian M, Pucciarelli F, Guido G, Polidori T, Landolfi F, Nicolai M, Lucertini E, Tarallo M, Bracci B, Nacci I, Rucci C, Eid M, Iannicelli E, Laghi A.	Cancers (Basel). 2021 May 29;13(11):2681	6,6	0
10	Optimization of contrast medium volume for abdominal CT in oncologic patients: prospective comparison between fixed and lean body weight-adapted dosing protocols.	Caruso D , Rosati E, Panvini N, Rengo M, Bellini D, Moltoni G, Bracci B, Lucertini E, Zerunian M, Polici M, De Santis D, Iannicelli E, Anibaldi P, Carbone I, Laghi A.	Insights Imaging. 2021 Mar 20;12(1):40	5,2	0
11	A noise-optimized virtual monoenergetic reconstruction algorithm improves the diagnostic accuracy of late	De Cecco CN, Caruso D , Schoepf UJ, De Santis D, Muscogiuri G, Albrecht MH, Meinel FG,	Eur Radiol. 2018 Aug;28(8):3393-3404.	3,9	32

	hepatic arterial phase dual-energy CT for the detection of hypervascular liver lesions.	Wichmann JL, Burchett PF, Varga-Szemes A, Sheafor DH, Hardie AD.			
12	Quantitative Chest CT analysis in discriminating COVID-19 from non-COVID-19 patients.	Caruso D , Polici M, Zerunian M, Pucciarelli F, Polidori T, Guido G, Rucci C, Bracci B, Muscogiuri E, De Dominicis C, Laghi A.	Radiol Med. 2021 Feb;126(2):243-249	3,4	13
13	Cinematic Rendering in CT: A Novel, Lifelike 3D Visualization Technique.	Eid M, De Cecco CN, Nance JW Jr, Caruso D , Albrecht MH, Spandorfer AJ, De Santis D, Varga-Szemes A, Schoepf UJ.	AJR Am J Roentgenol. 2017 Aug;209(2):370-379	3,1	79
14	Single- and dual-energy CT of the abdomen: comparison of radiation dose and image quality of 2nd and 3rd generation dual-source CT.	Wichmann JL, Hardie AD, Schoepf UJ, Felmlly LM, Perry JD, Varga-Szemes A, Mangold S, Caruso D , Canstein C, Vogl TJ, De Cecco CN.	Eur Radiol. 2017 Feb;27(2):642-650	3,9	56
15	Accuracy of Noncontrast Quiescent-Interval Single-Shot Lower Extremity MR Angiography Versus CT Angiography for Diagnosis of Peripheral Artery Disease: Comparison With Digital Subtraction Angiography	Varga-Szemes A, Wichmann JL, Schoepf UJ, Suranyi P, De Cecco CN, Muscogiuri G, Caruso D , Yamada RT, Litwin SE, Tesche C, Duguay TM, Giri S, Vliegenthart R, Todoran TM	JACC Cardiovasc Imaging. 2017 Oct;10(10 Pt A):1116-1124.	10,2	29

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