

Curriculum Vitae

Claudio De Lazzari

PERSONAL INFORMATION	
First name(s) / Surname(s)	Claudio De Lazzari
Address(es)	
Telephone(s)	
ORCID	
E-mail	
Nationality	
Date of birth	
EDUCATION	
Title of qualification awarded	Biomedical Engineering
Name and type of organisation providing education and training	University "La Sapienza" Rome (Italy)
Dates	
Title of qualification awarded	Master in Artificial Organs
Name and type of organisation providing education and training	Centro di Cultura Scientifica "Ettore Majorana" di Erice, Trapani (Italy)
Dates	
AWARDS	
	In November 2015 received the title of "DOCTOR HONORIS CAUSA" from the Board of Teaching University GEOMEDI (Georgia)
WORK EXPERIENCE	
Dates	24/02/2022 – 01/04/2022
Occupation or position held	Committee Member
Main activities and responsibilities	Evaluator & Expert Review for the Sardinia Region
Type of business or sector	Public Call "PROOF of CONCEPT - Enhancement of the results of research in biomedicine (PoC Program in Biomedicine)" - POR FESR 2014-2020: Priority Axis I - Action Line 1.2.2. 1. CUP G73D16000410006.
Name and address of employer	Sardegna Ricerche (https://www.sardegna ricerche.it/)
Dates	22/01/2021– Today
Occupation or position held	Professor
Main activities and responsibilities	Professor of the Course "SCIENTIFIC RESEARCH METHODS"
Type of business or sector	University
Name and address of employer	Teaching GEOMEDI University (Tbilisi-Georgia)

Occupation or position held	Expert/Scientific consultant
Main activities and responsibilities	Evaluator & Expert Review of scientific projects/proposals for the Trentino Alto Adige Region. Ex-ante Evaluation. In itinere Monitoring. Post-ante Evaluation. Check In loco.
Type of business or sector	Industrial research and innovation activity
Name and address of employer	Provincia Autonoma di Trento – Servizio Istruzione e Formazione del secondo grado, Università e Ricerca https://ricercaintrentino.provincia.tn.it/
Dates	30/01/2017 – Today
Occupation or position held	Expert
Main activities and responsibilities	Experts for the Open (COST) Call OC-2016-2
Type of business or sector	External Experts to evaluate proposals is made by the COST Association
Name and address of employer	COST is the European framework supporting trans-national cooperation among researchers, engineers and scholars across Europe http://www.cost.eu/
Dates	27/01/2017 -- 10/11/2017
Occupation or position held	Member of the Commission Expert Group
Main activities and responsibilities	Evaluator & Expert Review of scientific projects/proposals for the Lazio Region
Type of business or sector	POR FESR LAZIO 2014-2020 – Life 2020.
Name and address of employer	Lazio Innova (Regione Lazio) http://www.lazioinnova.it/
Dates	15/11/2016 -- Today
Occupation or position held	Member of the Commission for the Evaluation of Master Thesis
Main activities and responsibilities	Member of the International Commission of Examinations for Master Thesis. International Biomedical Engineering Course of Study (AACHEN University). The Master's of Science program in Biomedical Engineering is an interdisciplinary course of study involving interaction between the natural sciences, medicine, and engineering.
Type of business or sector	University
Name and address of employer	RWTH Aachen University (Germany)
Dates	05/10/2016 -- 20/07/2017
Occupation or position held	Expert/Scientific consultant
Main activities and responsibilities	Evaluator and Expert Review. Member of the Register of Experts in the Field of Innovation and Technology Transfer
Type of business or sector	POR FESR FVG 2014-2020. Projects submitted under the invitation to tender entitled "Incentives for "Standard" and "Strategic" projects. R & D to achieve through public-private- Maritime Technologies and Smart Health specialization areas"
Name and address of employer	Friuli Venezia Giulia Region "Direzione Centrale Lavoro, Formazione, Istruzione, Pari Opportunità, Politiche Giovanili, Ricerca e Università. Area Istruzione, Formazione e Ricerca"
Dates	21/10/2016 -- Today
Occupation or position held	Evaluator
Main activities and responsibilities	Evaluator & Expert Review of scientific projects
Type of business or sector	Oesterreichische Nationalbank (OeNB) Anniversary Fund (www.oenb.at/en)
Name and address of employer	OeNB Anniversary Fund is an Institution of the Austrian Central Bank which promotes projects in scientific research field

Type of business or sector	“FONDO CRESCITA SOSTENIBILE” CALL Horizon 2020 (MISE)
Name and address of employer	CNR (National Research Council)-MISE (Ministry of Economic Development)
Dates	18/02/2014 -- 31/07/2014
Occupation or position held	Members of the Commission Expert Group
Main activities and responsibilities	Evaluator & Expert Review of scientific projects/proposals
Type of business or sector	PAC (Piano Azione e Coesione) proposals in view of provision of pre-commercial public procurement procedures (MISE-MIUR)
Name and address of employer	Invitalia - Italian national agency for investment promotion and enterprise development http://www.invitalia.it/site/eng/home.html
Dates	02/03/2013 -- 31/12/2019
Occupation or position held	Researcher
Main activities and responsibilities	Scientific Consultant
Type of business or sector	Scientific Consultant in Biomedical Engineering field
Name and address of employer	Department of Biomedical Science National Research Council – Piazzale Aldo Moro, 7 Rome http://dsb.cnr.it/Department/Staff.aspx
Dates	26/06/2012 -- 01/09/2018
Occupation or position held	Expert/Scientific consultant
Main activities and responsibilities	Evaluator and Expert Review for PAR-FAS projects. Member of the Register of Experts in the Field of Innovation and Technology Transfer
Type of business or sector	INNOVATION AND TECHNOLOGY TRANSFER. INFORMATION AND COMMUNICATIONS TECHNOLOGY.
Name and address of employer	Finanziaria Ligure per lo Sviluppo Economico - F.I.L.S.E. S.p.A. http://www.filse.it/
Dates	15/03/2010 -- Today
Occupation or position held	Researcher
Main activities and responsibilities	Scientific consultant
Type of business or sector	MEMBER of the Scientific Council
Name and address of employer	Inter-University Consortium National Institute of Cardiovascular Research (INRC). Via Imerio, 48 Bologna http://www.inrc.it/consiglio-scientifico/
Dates	29/09/2008 -- Today
Occupation or position held	Expert
Main activities and responsibilities	MEMBER of the Register of EXPERTS & REVIEWERS of CINECA
Type of business or sector	INNOVATION AND TECHNOLOGY TRANSFER. INFORMATION AND COMMUNICATIONS TECHNOLOGY.
Name and address of employer	Ministry of Education, University and Research (M.I.U.R.) http://hubmiur.pubblica.istruzione.it/web/ricerca/home
Dates	20/02/2008 -- Today
Occupation or position held	Expert
Main activities and responsibilities	MEMBER of the Register of EXPERTS & REVIEWERS of M.I.S.E.
Type of business or sector	INNOVATION AND TECHNOLOGY TRANSFER. INFORMATION AND COMMUNICATIONS TECHNOLOGY.

Dates	18/07/2011 -- Today
Occupation or position held	Expert
Main activities and responsibilities	Evaluator and Expert Review
Type of business or sector	Expert to evaluate project in the context of the «Framework Programme for Research, Technological Development and Innovation 2009-2010» (DESMI 2009-2010). DESMI 2009-2010 IS CO-FUNDED BY THE REPUBLIC OF CYPRUS AND THE EUROPEAN REGIONAL DEVELOPMENT FUND
Name and address of employer	National Research Programmes Unit Research Promotion Foundation (Cyprus) - Strovolos Avenue 123 Post Code 2042 Strovolos Nicosia CYPRUS
	VISITING FELLOW
1988; 1995; 1999	INSTITUTE OF BIOCYBERNETICS AND BIOMEDICAL ENGINEERING. POLISH ACADEMY OF SCIENCES (IBIB-PAN)
1991;1992	NATIONAL INSTITUTES OF HEALTH (N.I.H.). NATIONAL HEART, LUNG, AND BLOOD INSTITUTE. BETHESDA , MARYLAND (U.S.A.)
2006	IWATE PREFECTURAL UNIVERSITY. FACULTY OF SOFTWARE AND INFORMATION SCIENCE. IWATE, JAPAN
	VISITING PROFESSOR
2004;2006;2008	POLSKA AKADEMIA NAUK -INTERNATIONAL CENTRE OF BIOCYBERNETICS. POLISH ACADEMY OF SCIENCES (IBIB-PAN)
2009	IWATE PREFECTURAL UNIVERSITY. FACULTY OF SOFTWARE AND INFORMATION SCIENCE. IWATE, JAPAN
2015;2016	RWTH AACHEN UNIVERSITY, MEDICAL FACULTY (AACHEN-GERMANY)
2015	TEACHING UNIVERSITY GEOMEDI, MEDICAL FACULTY (TBILISI-GEORGIA)
	PROFESSOR
2021	TEACHING UNIVERSITY GEOMEDI, MEDICAL FACULTY (TBILISI-GEORGIA)
	<p>From 2011 Head of "Telecardiology & Clinical Applications of Numerical Modeling of Biological Systems" Research Unit of the Inter-University Consortium: National Institute for Cardiovascular Research (INRC). Via Irnerio, 48 Bologna.</p> <p>http://www.inrc.it/telecardiologia-applicazioni-cliniche-di-modelli-numeric-di-sistemi-biologici-claudio-de-lazzari/</p> <p>The Research Unit consists of researchers from several Italian universities and researchers of the National Research Council (C.N.R.)</p>

SCIENTIFIC PROJECTS	
Dates	01/06/2017 - 31/08/2018
Project Title	INTEROMICS Heart Failure: "in silico" and "in vitro" mesenchymal stem cell study
Role	Principal Investigator
Web Site	http://www.interomics.eu/
Financed by	Ministry of Education, University and Research (MIUR) Prot. N. 0081575/2017 del 12/12/2017
Involved organizations	National Research Council of Italy; Sapienza University (Rome)
Dates	01/2016 -- Today
Project Title	Telecardiologia & simulazione in medicina
Role	Principal Investigator
Web Site	https://intranet.cnr.it/intranet/istituti/pdgp/progprev2016-2018/Anagrafica_progetto_intra.html?id_prog=19806

COPYRIGHT SOFTWARE

✓ C. De Lazzari, D. Stalteri:

CARDIOSIM[®] Website (2011-2019). (<https://cardiosim.dsb.cnr.it/>) Original website platform regarding the implementation of the cardiovascular software simulator titled **CARDIOSIM[®]**. Database system: design, access, implementation, & management.

✓ C. De Lazzari, R. Mimmo, A. Nicoletti, G. Tosti, G. Ferrari, F. Clemente, M. Guaragno:

CARDIOSIM[®] software (Interactive package software developed in order to study the interactions between the cardiovascular system and different mechanical circulatory and ventilatory assist devices. User: Research, Education and Study)

<https://brevetti.cnr.it/brevetti/reports/InfoTrovatoEn.jsp?nsrif=1327&dip=4>

Operating System (OS): *WINDOWS*

Programming language: *C++ e Visual Basic[®].*

Copyright n. 001252 -----17/05/1999.

✓ C. De Lazzari, R. Mimmo, D. Ambrosi, G. Ferrari, G. Tosti:

CARDIOSIM[®] software (Interactive package software developed in order to study the interactions between the cardiovascular system and pneumatic ventricular assist device).

<https://brevetti.cnr.it/brevetti/reports/InfoTrovatoEn.jsp?nsrif=840&dip=4>

Operating System (OS): MS-DOS

Programming language: TurboBasic.

Copyright n. 320896 -----22/07/1991.

- TOOLS AND TECHNIQUES. PROCEEDINGS OF SOMET 2018. (ISBN 978-1-61499-899-0). Edit by H. Fujita, E. Herrera-Viedma IOS Press (Amsterdam), vol. 303; 507 - 514. doi: [10.3233/978-1-61499-900-3-507](https://doi.org/10.3233/978-1-61499-900-3-507).
13. **2018** M. Capoccia, S. Marconi, and C. De Lazzari. Decision-making in advanced heart failure patients requiring LVAD insertion: Can preoperative simulation become the way forward? A case study. *Journal of Biomedical Engineering and Informatics*, 4(2); 8-20. (<https://doi.org/10.5430/jbei.v4n2p8>).
 14. **2018** M. Capoccia, S. Marconi, C. De Lazzari. A Simulation Approach to Guide Therapeutic Intervention in Advanced Heart Failure. PROCEEDINGS of BioMedEng18 Conference (ISBN 978-1-9996465-0-9),87. <https://www.biomedeng18.com/conference-proceedings>.
 15. **2018** M. Ledda, E. D'Emilia, M.G. Lolli, R. Marchese, C. De Lazzari and A. Lisi. Non-Ionizing Radiation for Cardiac Human Amniotic Mesenchymal Stromal Cell Commitment: A Physical Strategy in Regenerative Medicine. *Int. J. Mol. Sci.* 19(8), 2324. (<https://doi.org/10.3390/ijms19082324>).
 16. **2018** S. Marconi, C. Cappelli, M. Capoccia, D.M. Pisanelli, I. Genuini, and C. De Lazzari. A New Numerical Model of the Intra-aortic Balloon Pump as a Tool for Clinical Simulation and Outcome Prediction. In L. Lhotska et al. (eds.) *World Congress on Medical Physics and Biomedical Engineering*, Prague 3-8 June 2018. IFMBE Proceedings (68/3), 795-799. doi: [10.1007/978-981-10-9023-3_144](https://doi.org/10.1007/978-981-10-9023-3_144).
 17. **2018** M. Capoccia, S. Marconi, S.A. Singh, D.M. Pisanelli and C. De Lazzari. Simulation as a preoperative planning approach in advanced heart failure patients. A retrospective clinical analysis. *BioMedical Engineering OnLine*, 17 (1), 52. doi: [10.1186/s12938-018-0491-7](https://doi.org/10.1186/s12938-018-0491-7).
 18. **2017** M. Capoccia, S.A. Singh, C. De Lazzari. The Role of Simulation for Preoperative Planning in Patients Requiring Mechanical Circulatory Support. In: Eskola H., Väisänen O., Viik J., Hyttinen J. (eds) *EMBEC & NBC 2017*. EMBEC 2017, NBC 2017 (ISBN 978-981-10-5122-7). Tampere 11-15 June 2017, IFMBE PROCEEDINGS, vol. 65, 559-562. doi: [10.1007/978-981-10-5122-7_140](https://doi.org/10.1007/978-981-10-5122-7_140).

- **2017** A.M. Bersani, E. Bersani, C. De Lazzari. "Interaction Between the Respiratory and Cardiovascular System: a Simplified 0-D Mathematical Model", in **CARDIOVASCULAR and PULMONARY ARTIFICIAL ORGANS: EDUCATIONAL TRAINING SIMULATORS**. C. De Lazzari, M. Pirckhalava Eds. Published by Consiglio Nazionale delle Ricerche (CNR) ROMA (ISBN 978-88-8080-240-2), 87-103.
- **2017** C. De Lazzari, B. De Lazzari, I. Genuini M. Pirckhalava. "The Use of e-Learning for Healthcare Professionals: an Interactive in Silico Simulator", in **CARDIOVASCULAR and PULMONARY ARTIFICIAL ORGANS: EDUCATIONAL TRAINING SIMULATORS**. C. De Lazzari, M. Pirckhalava Eds. Published by Consiglio Nazionale delle Ricerche (CNR) ROMA (ISBN 978-88-8080-240-2), 161-181.
- **2017** A. Cinque, F. Fedele, B. Quatember, I. Genuini C. De Lazzari. "Interaction Between Mechanical Ventilation and Biventricular Pacemaker: Haemodynamic Studies Using Medical Simulation Software Platform", in **CARDIOVASCULAR and PULMONARY ARTIFICIAL ORGANS: EDUCATIONAL TRAINING SIMULATORS**. C. De Lazzari, M. Pirckhalava Eds. Published by Consiglio Nazionale delle Ricerche (CNR) ROMA (ISBN 978-88-8080-240-2), 183-201.
- **2016** C. De Lazzari, B. Quatember. **CARDIOSIM®: A Numerical Simulator and its Application to Study the Interactions between Mechanical Circulatory Assist Devices and the Native Cardiovascular System**. eBook: Ventricular Assist Devices (ISBN 978-1-944685-59-1). Published by SM Group Dover, DE 19904 (USA). <http://www.smgebooks.com/ventricular-assist-devices/index.php>
- **2011** C. De Lazzari, D.M. Pisanelli, A. D'Ambrosi, I. Genuini, F. Fedele. Telecardiology in Italy: current realizations and future prospects. **NEW TRENDS IN SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES**. Book: Frontiers in Artificial Intelligence and Applications, Vol. 231: New Trends in Software Methodologies, Tools and Techniques (ISBN 978-1-60750-830-4 - ISSN 0922-6389). Editor Springfield IOS Press (Amsterdam), 315 - 330. doi: 10.3233/978-1-60750-831-1-315
- **2010** LA TELECARDIOLOGIA, F. Fedele, I. Genuini, C. De Lazzari, D.M. Pisanelli Eds. Published by SOCIETÀ EDITRICE UNIVERSO s.r.l ROMA (ISBN 978-88-65150-18-4)
- **2010** C. De Lazzari. "Modelli numerici per la stima di parametri non direttamente misurabili: Simulazione e Telecardiologia" in LA TELECARDIOLOGIA, F. Fedele, I. Genuini, C. De Lazzari, D.M. Pisanelli Eds. Roma: Publishers SEU s.r.l. (ISBN 978-88-65150-18-4), 105-118.
- **2009** C. De Lazzari, A. Di Molfetta, L. Fresiello. "Heart models" in **COMPREHENSIVE MODELS OF CARDIOVASCULAR AND RESPIRATORY SYSTEMS: THEIR MECHANICAL SUPPORT AND INTERACTIONS**, M. Darowski, G. Ferrari Eds. New York: Publishers NOVA Science (ISBN 978-1-60876-212-5), 49-59.
- **2009** C. De Lazzari, L. Fresiello. "Parallel pneumatic LVAD simulation – Visual Basic platform" in **COMPREHENSIVE MODELS OF CARDIOVASCULAR AND RESPIRATORY SYSTEMS: THEIR MECHANICAL SUPPORT AND INTERACTIONS**, M. Darowski, G. Ferrari Eds. New York: Publishers NOVA Science (ISBN 978-1-60876-212-5), 115-121.
- **2009** C. De Lazzari, S. Salinari. **MODELLI DI SISTEMI BIOLOGICI**. Libro di testo per gli studenti del Corso di Laurea Specialistica in Ingegneria Biomedica dell'Università "Sapienza" di Roma e dell'Università di Pisa.
Materia d'insegnamento "Modelli di Sistemi Biologici". Published by Consiglio Nazionale delle Ricerche (ISBN 978-88-8080-099-6).
- **2009** D.M. Pisanelli, C. De Lazzari, E. Bugli-Innocenti, N. Zanetti. "An Ontology Supporting On-Board Vehicle Multimodal Interaction System", in: Multimodal Human Computer Interaction and Pervasive Services, Edited by P. Grifoni, Published by www.info-sci-ref.com (ISBN 978-1-60566-386-9), 236-248.
- **2008** D.M. Pisanelli, C. De Lazzari, E. Bugli-Innocenti, N. Zanetti. "An ontology supporting a car advanced driver assistance system", in: Fujita H, Zualkernan I (Eds) **New Trends in Software Methodologies, Tools and Techniques**, Amsterdam, IOS Press, 2008, 403-412.