

EDUCATION

2017 - 2021 **PhD on Vascular Anastomotic Techniques** at the First Department of Surgery, Laikon Hospital, School of Medicine, University of Athens
- in collaboration with the Biomedical Engineering Unit of the First Department of Cardiology at Hippokratation Hospital and the Vascular Surgery Department of Attikon Hospital

My research is focused on vascular anastomotic techniques. Especially, I work on the development and experimental assessment of a novel technology for the improvement of aortic end-to-end anastomosis.

2016 **MSc in Medical Device Design,**
National College of Art and Design, University College Dublin

As part of this course, I worked in projects assigned by some of the major companies in the worldwide field of medical devices (Cook Medical, Hollister, Connexicon Medical) and some of the most pioneering academic hospitals in Dublin (St. James's Hospital, Mater Hospital).

2012 **BA and MA in Architectural Engineering,**
University of Patras

As part of my studies, I worked on various art-oriented courses offering a more human-centered approach to architecture by means of body practices, such as walking. My dissertation project was presented as an interactive installation in Agromusic Festival, Lakonia, 2013

WORK EXPERIENCE

2021 - now **CTO,**
Shuttle catheters

2019 - now **Medical Device Designer,**
Freelance

I have worked with Athroa Innovations on the development of a mockup prototype and 3D visualizations of a novel medical technology. Also, I have collaborated with Lume Medical and Zeit Medical of Stanford University.

2018 - 2019 **Designer,**
Innostat, Athens

2014 - 2015 **Assistant Architect,**
Arch Studio, Athens

TEACHING EXPERIENCE

- 2021 Invited lecture on “Human-centered Design” as part of the online module “Biomedical Engineering”, coordinated by Professor Theodore Papaioannou, School of Medicine, University of Athens
- 2018 - 2021 Invited lecture as part of the module “Innovative Medical Technologies”, coordinated by Professor Theodore Papaioannou, School of Medicine, University of Athens
- 2018 Invited lecture on “The Design process” as part of the module “Architecture and Urbanism” coordinated by Lecturer Nikos Kazeros Department of Architecture, Metropolitan College
-

ARTISTIC ACTIVITY

- 9/2021 Woman case, collective work, artistic director: Eleni Tzirtzilaki, curated by Urban Mythologies, Athens
- 9/2020 MEMORIA. Voices in Silence, participation, artistic director: Eleni Tzirtzilaki, AICA Hellas, National Museum of Contemporary Art (EMST), Athens
- 10/2017 ΜεΤΑτηΛΗΘη, collective work, artistic director: Giorgos Eythimiou, curated by The Symptom Projects, Panourgia museum, Amfissa
-

AWARDS

- 2019 - 2021 Hellenic Foundation of Research and Innovation PhD scholarship,
- 2016 - 2016 Onassis Foundation Master Course Scholarship
- 2005 Award for entering the School of Architecture, at the University of Patras, as the highest scoring candidate in entrance examinations
-

PUBLICATIONS

- 12/2021 **“Precision Medicine in Aortic Anastomosis: A Numerical and Experimental Study of a Novel Double-Sided Needle”**. Manolesou, D.G.; Korompili, G.; Davazoglou, D.; Lazaris, A.M.; Schi-zas, D.; Sanoudou, D.; Liakakos, T.;

Tsioufis, C.; Papaioannou, T.G. J Pers Med. 2021 Dec 20;11(12):1385. doi: 10.3390/jpm11121385. PMID: 34945857; PMCID: PMC8707865.

- 10/2020 **“Experimental devices versus hand-sewn anastomosis of the aorta; a systematic review and meta-analysis”**. Manolesou D, Georgiopoulos G, Schizas D, Lazaris A, Stamatelopoulos K, Khir A, Liakakos T, Papaioannou TG, J Surg Res. 2021 Feb;258:200-212. doi: 10.1016/j.jss.2020.08.060. Epub 2020 Oct 6
- 4/2020 **“HIV and patient engagement; Lessons for Covid-19 management”**. Manolesou D, Papaioannou TG, Signum, Spring 2021
- 2/2019 **“A systematic review and meta-analysis of the efficacy of aortic anastomotic devices”**. Manolesou D, Papaioannou TG, Georgiopoulos G, Schizas D, Lazaris A, Stamatelopoulos K, Dimakakos E, Stefanadis C, Liakakos T, Tousoulis D, J Vasc Surg. 2019 Feb;69(2):598-613.e7. doi: 10.1016/j.jvs.2018.08.154
- 5/2019 **“3D Bioprinting Methods and Techniques: Applications on Artificial Blood Vessel Fabrication”**. Papaioannou TG, Manolesou D, Dimakakos E, Tsoucalas G, Vavuranakis M, Tousoulis D, Acta Cardiol Sin. 2019 May;35(3):284-289. doi: 10.6515/ACS.201905_35(3).20181115A
- 2013 **“Water Tower Kinetic Machine”**, Manolesou D., Sites of Decline /Ampersand, University of Michigan
-

CONFERENCES

- 5/2021 **“On the improvement of aortic anastomosis”**. Manolesou D, Korompili G, Lazaris A, Schizas D, Liakakos T, Papaioannou T, Oral Presentation at the 2nd PhD Research Symposium in Health Sciences and Biomedicine, Madrid, 21 May 2021
- 1/2020 **“New Research in Biomedical Technology: Anastomotic Devices”**. Manolesou D, Oral Presentation in “BioTech 2020”, 31 January 2020
- 9/2020 **“Alternative aortic anastomotic devices: where do we stand today?”**. Manolesou D, Papaioannou TG, Georgiopoulos G, Schizas D, Lazaris A, Stamatelopoulos K, Dimakakos E, Stefanadis C, Liakakos T, Tousoulis D, Oral Presentation in “36th Balkan Medical Week”, 25-26 September 2020
- 7/2016 **“Canine ovariohysterectomy: A step guide to the procedure”**, Kavanagh D., Parikh N., Manolesou D. and Wickham M., O’Reilly M., Kirby B. and McAlinden A., Oral Presentation in «Veterinary Education Symposium 2016», Glasgow, United Kingdom, 4-6 July 2016