

PERSONAL INFORMATION

Andrea Mangini



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WORK EXPERIENCE

 Skype id manginipda

 WeChat id andremanginimd

 Date of birth 11/12/1968

- 05/07/1994–05/08/1995 **Medical Officer**
 HQ Allied Land Forces Southern Europe (LANDSOUTH), Verona (Italy)
- 800 soldiers health daily management
 - Military Advanced Life Support group Team Leader
 - NATO 1995 Strategy Conference - Skier Medical Officer assigned to NATO Forces South Europe Commander-in-Chief Admiral Leighton W. Smith .
- 30/11/1997–01/01/2011 **Cardiac Surgeon**
 Azienda Ospedaliera - Polo Universitario "L. SACCO", Milano (Italy)
- 2000–2002 **Advanced Life Support Organization Team Leader**
 S.S.U. Em 118 Milano (Regione Lombardia)
 Team Leader in Advanced Rescue Actions
- 01/03/2003–31/08/2003 **Invited Cardiac Surgeon**
 Clinique Universitaires Saint-Luc., Brussels (Belgium)
- 2008–2016 **Research Director For CardioLAB**
 Università degli Studi di Milano - Politecnico di Milano
 Research on valve repair, replacement and TAVI.
 Mock loop, passive beating heart, active beating heart
- 01/01/2012–30/04/2022 **Senior Consultant in Cardiac Surgery**
 Azienda Ospedaliera – Polo Universitario “L.SACCO”, Milano (Italy)
- About 100 Cardiac Surgical Procedures as first surgeon a year
 - Research and Teaching
 - Aortic Valve Repair Program Coordinator
 - ECMO Program Coordinator
- 01/09/2016–01/10/2017 **Deputy Chief – Cardiac Surgery**
 Jilin Heart Hospital
 The Jilin Heart Hospital
 5558 Jingyue Ave Road
 Changchun City
 Jilin Province
 130117 China
- 275 Cardiac Surgery Procedures as First surgeon in one year
 - 1.6% Mortality
- 01/05/2022 – Present **Senior Consultant in Cardiac Surgery**
 IRCCS Fondazione Ca granda – Ospedale Maggiore Policlinico
- 01/12/2023 – 10/12/2023 **Humanitarian Mission in Burkina Faso - Ouagadougou**
 Centre Hospitalier Universitaire de Tingandogo
- 01/10/2025–01/10/2026 **Visiting Surgeon –Cardiac Surgery DPT**
 Jilin Heart Hospital
 The Jilin Heart Hospital
 5558 Jingyue Ave Road
 Changchun City
 Jilin Province
 130117 China

1987–1993	Degree in Medicine (110/110 cum laude) Università degli Studi di Milano, Milano (Italy)	EQF level 7
05/05/1994–05/07/1994	116° Medical Cadets Course Esercito Italiano, Firenze (Italy)	
1995–2000	Cardiac Surgery Residency (70/70 cum laude) Università degli Studi di Milano, Milano (Italy)	EQF level 8
19/10/2000–21/10/2000	Advanced Cardiac Life Support Course Italian Resuscitation Council	
13/03/2001–15/03/2001	Pre-Hospital Trauma Care Course Italian Resuscitation Council	
2017	Bioengineering PhD Politecnico di Milano Translational Approach to Aortic Valve Repair by merging <i>in silico</i> : Finite Elements models <i>in vitro</i> : Pulse Duplicator, Mock loop circulation <i>in vivo</i> : Clinical Data	EQF level 8

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B1
University of Cambridge Local Examinations Syndicate FIRST CERTIFICATE The Oxford Examination in English as a Foreign Language Higher Level					
French	B1	A1	A2	A1	

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Sailing Boat Command licence
- Advanced Open Water Diver licence
- Free Diver Licence
- Parachutist licence

Job-related skills

- ECMO coordinator for L SACCO hospital and for the Milano Shock Team.
- 2002 Winner ESCVS (European Association for Cardiovascular Surgery) Rabago Prize.
 - 2008 Winner of the SICCH (Italian Society for Cardiac Surgery) Prize
 - 2011 co-Winner of the EACTS (European Association for Cardio-thoracic Surgery) Walton Lilliehei Prize
 - 2014 co-Winner of the SICCH Prize

Patents

Fiore G, Redaelli A, Vismara R, Mangini A, Gelpi G, Lemma M, Antona C (2017). Assieme di banco prova per la simulazione di interventi di cardiocirurgia e/o procedure di cardiologia interventistica. European Patent Office n. 3539118

Computer skills

- Computer Assemble and disassemble capability

- Office Suite good knowledge (macro programming level)
- Linux distros good knowledge (Ubuntu, Mint, Fedora ecc..)
- "old" programming languages good knowledge (basic, pascal forth, prolog)

Publications

1) - Papers:

-Exploring the role of epicardial adipose-tissue-derived extracellular vesicles in cardiovascular diseases.

Rizzuto AS, Gelpi G, **Mangini A**, Carugo S, Ruscica M, Macchi C. *iScience*. 2024 Feb 29;27(4):109359. doi: 10.1016/j.isci.2024.109359. eCollection 2024 Apr 19.

-Commissural repositioning in bicuspid aortic valve repair: an in vitro acute model to explore and explain different results.

Romagnoni C, Contino M, Jaworek M, Rosa R, Salurso E, Perico F, Gelpi G, Vismara R, Fiore GB, **Mangini A**, Antona C. *Eur J Cardiothorac Surg*. 2022 Feb 18;61(3):647-654. doi: 10.1093/ejcts/ezab359.

-Contino M, Lemma MG, **Mangini A**, Vanelli P, Antona C. (2021). How to recycle a misused left internal thoracic artery: Tips and tricks.

JOURNAL OF CARDIAC SURGERY, vol. 36, p. 3881-3883, ISSN: 0886-0440, doi: 10.1111/jocs.15755

-Gentile D, Bursi F, **Mangini A**, Carugo S (2021). Aortic pseudoaneurysm with fistula to pulmonary trunk causing recurrent pulmonary

oedema: a rare late complication of ascending aorta replacement. *EUROPEAN HEART JOURNAL*, vol. 42, ISSN: 0195-668X, doi:

<https://doi.org/10.1093/eurheartj/ehaa712>

-**Mangini A**, Romagnoni C, Contino M, Gelpi G, Antona C. (2021). Open supra-aortic revascularization and arch reconstruction

after previous TEVAR in a complex arch anatomy. *MULTIMEDIA MANUAL OF CARDIOTHORACIC SURGERY*, ISSN: 1813-9175,

doi: 10.1510/mmcts.2021.034

-Romagnoni C, Contino M, Jaworek M, Rosa R, Salurso E, Perico F, Gelpi G, Vismara R, Fiore GB, **Mangini A**, Antona C (2021).

Commissural repositioning in bicuspid aortic valve repair: an in vitro acute model to explore and explain different results.

EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, ISSN: 1873-734X, doi:

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-Jaworek M., **Mangini A.**, Maroncelli E., Lucherini F., Rosa R., Salurso E., Votta E., Antona C., Fiore G. B., Vismara R. (2020). Ex

Vivo Model of Functional Mitral Regurgitation Using Deer Hearts. *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL*

RESEARCH, vol.

e-pub ahead of print, p. 1-12, ISSN: 1937-5387, doi: 10.1007/s12265-020-10071-y

-Contino M, Lemma M, Delle Fave A, Romagnoni C, **Mangini A**, Colombo S, Rosa R, Vanelli P, Antona C - IntraClude device: How to predict the balloon

volume inflation from our experience analysis. *CHIRURGIA* 2020 December;33(6):285-288 -doi: 10.23736/S0394-9508.19.05061-7

-Romagnoni C, Contino C, Rosa R, **Mangini A** (2020). How to guarantee safety and optimal surgical view in COVID time. *JOURNAL*

OF CARDIAC SURGERY, p. 1-2, ISSN: 0886-0440, doi: DOI: 10.1111/jocs.14926

-Lansac E, Pouya Y, De Heer F, Bavaria J, De Kerchove L, El-Hamamsy I, El Khoury G, Sarano ME, (Mangini a), Takkemberg J

(2019). Aortic Valve Surgery in Nonelderly Patients: Insights Gained From AVIATOR. *SEMINARS IN THORACIC AND*

CARDIOVASCULAR SURGERY, vol. 31, p. 643-649, ISSN: 1043-0679, doi:

10.1053/j.semctvs.2019.05.033

-de Heer F. aSend mail to de Heer F., Kluijn J.a, Elkhoury G.b, Jondeau G.c, Enriquez-Sarano M.d, Schäfers H.-J.e, Takkenberg

J.J.M.f, Lansac, E.g, Dinges C., Steindl J., Ziller R., (Mangini A), De Kerchove L. (2019). AVIATOR: An open international registry to

evaluate medical and surgical outcomes of aortic valve insufficiency and ascending aorta aneurysm. *JOURNAL OF THORACIC AND*

CARDIOVASCULAR SURGERY, vol. 157, p.2202-2211, ISSN: 0022-5223, doi:10.1016/j.jtcvs.2018.10.076

- Frederiek de Heer, Emmanuel Lansac, Ismail El-Hamamsy, Philippe Pibarot, Laurent De Kerchove, Gebrine El Khoury, Hans-Joachim

Schäfers, Johanna J. M. Takkenberg, Jolanda Kluijn; on behalf of the Aortic Valve Repair Research Network Investigators (Andrea Mangini) *

The AVIATOR registry: the importance of evaluating long-term patient outcomes. *Ann Cardiothorac Surg* 2019;8(3):393-395 |

<http://dx.doi.org/10.21037/acs.2019.04.08>

-Contino M, **Mangini A**, Romagnoni C, Antona C (2018). Commissural repositioning in bicuspid aortic valve repair with Valsalva graft. JOURNAL OF VISUALIZED SURGERY, vol. 4, p. 70-73, ISSN: 2221-2965, doi: 10.21037/jovs.2018.03.18

-Romagnoni C., **Mangini A**, Contino M, Rosa R, Ippolito S, Gelpi G, Antona C. (2017). Preoperative Computed Tomography Scan Analysis of Interleaflets Triangles to Guide Aortic Root Repair Procedures. JOURNAL OF HEART VALVE DISEASE, vol. 26, p. 12-17,

-Contino M, **Mangini A**, Lemma M.G., Romagnoni C, Zerbi P, Gelpi G, Antona C. (2016). A geometric approach to aortic root surgical anatomy. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, vol. 49, p. 93-100, ISSN:1010-7940, doi: 10.1093/ejcts/ezv059

-PIOLA, MARCO, VISMARA, RICCARDO, TASCA, GIORDANO, LUCHERINI, FEDERICO, Redaelli, Paola, SONCINI, MONICA, Romagnoni, Claudia, **MANGINI, ANDREA**, Antona, Carlo, FIORE, GIANFRANCO BENIAMINO (2016). Design of a simple coronary impedance simulator for the in vitro study of the complex coronary hemodynamics. PHYSIOLOGICAL MEASUREMENT, vol. 37, p. 2274-2285, ISSN:1361-6579, doi: 10.1088/1361-6579/37/12/2274

-TASCA, GIORDANO, FIORE, GIANFRANCO BENIAMINO, **MANGINI, ANDREA**, Romagnoni, Claudia, Gamba, Amando, REDAELLI, ALBERTO CESARE LUIGI, Antona, Carlo, VISMARA, RICCARDO (2016). Opening-closing pattern of four pericardial prostheses: results from an in vitro study of leaflet kinematics. JOURNAL OF ARTIFICIAL ORGANS, vol. 19, p. 350-356, ISSN: 1434-7229, doi: 10.1007/s10047-016-0910-0

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-VISMARA, RICCARDO, Gelpi, Guido, Prabhu, Santosh, Romitelli, Paolo, Troxler, Lauren G, **MANGINI, ANDREA**, Romagnoni, Claudia, Contino, Monica, Van Hoven, Dylan T, LUCHERINI, FEDERICO, JAWOREK, MICHAL LUKASZ, REDAELLI, ALBERTO CESARE LUIGI, FIORE, GIANFRANCO BENIAMINO, Antona, Carlo (2016). Transcatheter Edge-to-Edge Treatment of Functional Tricuspid Regurgitation in an Ex Vivo Pulsatile Heart Model. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY, vol. 68, p. 1024-33-1033, ISSN:0735-1097, doi: 10.1016/j.jacc.2016.06.022

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-Romagnoni Claudia, **Mangini Andrea**, Vismara Riccardo, Leopaldi Alberto Maria, Contino Monica, Lemma Massimo Giovanni, Fiore Gianfranco Beniamino, Antona Carlo (2014). Aortic Interleaflet Triangles Reshaping : Hydrodynamic , Kinematic , and Morphological Effects in In-Vitro Analysis. JOURNAL OF HEART VALVE DISEASE, vol. 23, p. 424-431, ISSN: 0966-8519

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In-vitro study of a porcine quadricuspid aortic valve.. JOURNAL OF HEART VALVE DISEASE, vol. 23, p.122-126, ISSN: 0966-8519

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-de Kerchove L, VISMARA, RICCARDO, **MANGINI, ANDREA**, FIORE, GIANFRANCO BENIAMINO, Price J, Noirhomme P, Antona C, El Khoury G. (2012). In vitro comparison of three techniques for ventriculo-aortic junction annuloplasty.. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, vol. 41, p. 1117-1124,ISSN: 1010-7940, doi: 10.1093/ejcts/ezr237

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-**MANGINI, ANDREA**, M. G. Lemma, SONCINI, MONICA, VOTTA, EMILIANO, M. Contino, VISMARA, RICCARDO, REDAELLI, ALBERTO CESARE LUIGI, C. Antona (2011).

The aortic interleaflet triangles annuloplasty: a multidisciplinary appraisal. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, vol. 40, p. 851-857,ISSN: 1010-7940

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EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, vol. 37, p. 1015-1020, ISSN: 1010-7940, doi: 10.1016/j.ejcts.2009.11.048

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