

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name
Address
Telephone
Job e-mail
Personal e-mail

Nationality

Date of birth

BOZZETTO MICHELA

michela.bozzetto@marionegri.it

Italian

WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

September 2020 - onwards
Istituto di Ricerche Farmacologiche Mario Negri IRCCS
Centro Cele e Daccò Via G.B. Camozzi 3 - 24020 Ranica (BG)
Research Institute IRCCS
PostDoc Researcher
Computational modeling, fluid dynamic and fluid structure interaction simulations in the arteriovenous fistulae for hemodialysis; image processing of multiparametric MRI for kidney disease.

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

October 2017 - September 2020
Università degli Studi di Bergamo
Via Marconi 5- 24044 Dalmine (BG)
Public university
pHD student
Computational modeling, fluid dynamic and fluid structure interaction simulations in the arteriovenous fistulae for hemodialysis

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

November 2019 – February 2020
Simula Research Laboratories
Oslo, Norvegia
Research Institute
Scientific stay abroad during the pHD program
Fluid structure interaction simulations in the arteriovenous fistulae for hemodialysis

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

November 2014 – September 2017
Istituto di Ricerche Farmacologiche Mario Negri IRCCS
Centro Cele e Daccò Via G.B. Camozzi 3 - 24020 Ranica (BG)
Research Institute IRCCS
Full time researcher
Computational fluid dynamic simulations in the arteriovenous fistulae for hemodialysis

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

2012 – 2014

Politecnico di Milano – Biomedical Engineering

Fluid dynamics, biomechanics, biomaterials and tissue engineering

Master degree - Specializations: Biomeccanica e Biomateriali

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

2008 – 2012

Politecnico di Milano - Biomedical Engineering

Mathematics, chemistry, physics, physiology, anatomy, biomedical signals and biomechanics

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

2003 – 2008

Liceo classico P. Sarpi

Letteratura italiana, storia, filosofia, latino e greco

High-school degree

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

EXCELLENT

EXCELLENT

VERY GOOD

ADDITIONAL INFORMATION

PUBLICATIONS

BOZZETTO M, SOLIVERI L, POLONI S, BRAMBILLA P, CURTO' D, CONDEMI GC, CEFALI' P, SPINA I, VILLA A, CAROLI A, REMUZZI A. ARTERIOVENOUS FISTULA CREATION WITH VASQ DEVICE : A FEASIBILITY STUDY TO REVEAL HEMODYNAMIC IMPLICATIONS. JOURNAL OF VASCULAR ACCESS, 2022.

BOZZETTO M, POLONI S, CAROLI A, CURTO' D, D'HAENINCK, VANOMMESLAEGHE F, GJORGJIEVSKI, REMUZZI A. THE USE OF AVF.SIM SYSTEM FOR THE SURGICAL PLANNING OF ARTERIOVENOUS FISTULAE FOR HEMODIALYSIS. JOURNAL OF VASCULAR ACCESS, 2022

BOZZETTO M, BRAMBILLA P, ROTA S, ENE-IORDACHE B, SIRONI S, REMUZZI G, REMUZZI A. TOWARD LONGITUDINAL STUDIES OF HEMODYNAMICALLY INDUCED VESSEL WALL REMODELING. INT J ARTIF ORGANS, 1:39139881878420,7 2018

REMUZZI A, **BOZZETTO M**. BIOLOGICAL AND PHYSICAL FACTORS INVOLVED IN THE MATURATION OF ARTERIOVENOUS FISTULA FOR HEMODIALYSIS. CARDIOVASC ENG TECHNOL. 8(3):273-279, 2017.

SHARMA K, CAROLI A, QUACH LV, PETZOLD K, **BOZZETTO M**, SERRA AL, REMUZZI G, REMUZZI A. KIDNEY VOLUME MEASUREMENT METHODS FOR CLINICAL STUDIES ON AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE. PLOS ONE. 2017; 12(5):E0178488.

REMUZZI A, **BOZZETTO M**, BRAMBILLA P. IS SHEAR STRESS THE KEY FACTOR FOR AVF MATURATION? J VASC ACCESS. 2017; 18 (SUPPL. 1):10-14.

BOZZETTO M, ROTA S, VIGO V, CASUCCI F, LOMONTE C, MORALE W, SENATORE M, TAZZA L, LODI M, REMUZZI G, REMUZZI A. CLINICAL USE OF COMPUTATIONAL MODELING FOR SURGICAL PLANNING OF ARTERIOVENOUS FISTULA FOR HEMODIALYSIS. BMC MED INFORM DECIS MAK. 2017. 14;17(1):26.

BOZZETTO M, ENE-IORDACHE B, REMUZZI A. TRANSITIONAL FLOW IN THE VENOUS SIDE OF PATIENT-SPECIFIC ARTERIOVENOUS FISTULAE FOR HEMODIALYSIS. ANN BIOMED ENG 2016. 44(8):2388-401

ABSTRACTS

Bozzetto M, Souche A, Remuzzi A, Valen-Sendstad K. Turbulent-like arteriovenous fistula flows cause wall vibrations; a specific stimulus for stenosis development? 26th congress of the European society of biomechanics, 2021. ORAL PRESENTATION.

Bozzetto M, Soliveri L, Poloni S, Caroli A, Mallios A, Remuzzi A. What happens after fistula surgery? Longitudinal MRI-based 3D geometric model and CFD analysis reveals flow instability that can be limited by an external support device. 17th Congress of American Society of Diagnostic and Interventional Nephrology, 2021

Bozzetto M, Soliveri L, Caroli A, Mallios A, Remuzzi A. What happens after fistula surgery? Longitudinal MRI-based 3D geometric model and CFD analysis reveals flow instability that can be limited by an external support device. 12th Congress of the Vascular Access Society, 2021

Remuzzi A, **Bozzetto M**, Bonacorsi F, Goddi A. Comparison between High-frame rate Vector Flow Imaging and Computational Flow Dynamics in the carotid bifurcation. 9th International Bio-Fluid Mechanics and Vascular Mechano-Biology Symposium, Tucson 2020.

Remuzzi A, **Bozzetto M**, Bonacorsi F, Goddi A. Comparison between High-frame rate Vector Flow Imaging and Computational Flow Dynamics in the carotid bifurcation. 9th

International Bio-Fluid Mechanics and Vascular Mechano-Biology Symposium, Tucson 2020.

Bozzetto M, Brambilla P, Rota S, Remuzzi A. Morphological and hemodynamic changes in patient-specific arteriovenous fistula for hemodialysis, Congress of the European Society of artificial Organs 2019, Hannover. ORAL PRESENTATION.

Bozzetto M, Poloni S, Rota S, Remuzzi A. Exploring the potential of sound analysis to detect stenosis in arteriovenous fistulae for hemodialysis. Congress of the European Society of artificial Organs 2019, Hannover.

Bozzetto M, Brambilla P, Rota S, Ene-lordache B, Sironi S, Remuzzi G, Remuzzi A. Local vascular remodeling and hemodynamic changes during maturation of patient-specific arteriovenous fistula for hemodialysis, WCB 2018, Dublin

Bozzetto M, Brambilla P, Rota S, Ene-lordache B, Remuzzi A. Novel strategies for patient-specific modelling of arteriovenous fistula for hemodialysis, 10th European Solid Mechanics Conference, Bologna 2018. ORAL PRESENTATION.

Bozzetto M, Brambilla P, Valle C, Barletta A, Caroli A, Sironi S, Remuzzi G, Remuzzi A. Novel strategy for contrast-free magnetic resonance angiography of arteriovenous fistulae for hemodialysis. 2nd International Symposium on Functional Renal Imaging, Berlin 2017

Bozzetto M, Rota S, Vigo V, Casucci F, Lomonte C, Senatore M, Lodi M, Morale W, Favi E, Ronga C, Dugo M, Remuzzi G, Remuzzi A. Clinical use of AVF.SIM system for planning of arteriovenous fistula for hemodialysis. SIN 2017. ORAL PRESENTATION.

Bozzetto M, Brambilla P, Ene-lordache B, Remuzzi A. Novel strategies for patient-specific modelling of arteriovenous fistula for hemodialysis, European Society of Biomechanics (Capitolo Italiano), Rome 2017. ORAL PRESENTATION.

Bozzetto M, Brambilla P, Ene-lordache B, Sironi S, Remuzzi G, Remuzzi A. Towards longitudinal analysis of arteriovenous fistula for hemodialysis using contrast-free magnetic resonance angiography. ESAO 2017. ORAL PRESENTATION.

Bozzetto M, Remuzzi A. Translating computational modeling to clinic environment: the use of AVF.SIM system for planning of vascular access for hemodialysis in the clinical setting, yESAO 2017. ORAL PRESENTATION.

Bozzetto M, Brambilla P, Ene-lordache B, Sironi S, Remuzzi G, Remuzzi A. Towards longitudinal analysis of arteriovenous fistula for hemodialysis using contrast-free magnetic resonance angiography. ESAO 2017. ORAL PRESENTATION.

Bozzetto M, Remuzzi A. Translating computational modeling to clinic environment: the use of AVF.SIM system for planning of vascular access for hemodialysis in the clinical setting, yESAO 2017. ORAL PRESENTATION.

Bozzetto M, Remuzzi A. AVF.SIM – Computer based surgical planning of vascular access for hemodialysis. 35th Vicenza Course on AKI & CRRT 2017.

Bozzetto M, Rota S, Vigo V, Casucci F, Lomonte C, Remuzzi G, Remuzzi A. Clinical use of computational model for surgical planning of hemodialysis vascular access: the AVF.SIM system. SIN 2016

Ene-lordache B, **Bozzetto M**, Remuzzi A. "Computation fluid dynamic strategies for the

study of blood flow in the vascular access for hemodialysis”, Annual ESAO Congress, Leuven, 2015. ORAL PRESENTATION.

Remuzzi A, **Bozzetto M**, Ene-Iordache B. “Transitional Flow In Patient-Specific Arteriovenous Fistulae For Hemodialysis”, Annual ESAO Congress, Rome, 2014

AWARDS

Remuzzi A, **Bozzetto M**, Ene-Iordache B. “Transitional Flow In Patient-Specific Arteriovenous Fistulae For Hemodialysis”, Word Conference of Nephrology, Cape Town, 2014

1st place onDemand Abstract at the Congress of the American Society of Diagnostic and Interventional nephrology 2021

Best poster award 10th Congress of the Vascular Access Society - Ljubljana, Slovenia, 2017

yESAO exchange award 2016

International CAE poster award 2014

Bergamo, May 20th 2022