

PERSONAL INFORMATION

José Félix Rodríguez Matas



 Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milano, Italy

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 [http://www.laboratorio.com](#)

Sex M | Date of birth 13/12/1971 | Nationality Spanish/Venezuelan

WORK EXPERIENCE

Oct- 2024 – present

Full professor of Industrial Bioengineering

Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milan, Italy (www.polimi.it)

- Professor of continuum mechanics for biomedical engineering and computational biology of the heart
 - Research at the department of Chemistry, Materials and Chemical Engineering “Giulio Natta”
- Business or sector** Biomedical Engineering

March 2015 – Sept. 2024

Associate professor of Industrial Bioengineering

Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milan, Italy (www.polimi.it)

- Professor of continuum mechanics for biomedical engineering and computational biology of the heart
 - Research at the department of Chemistry, Materials and Chemical Engineering “Giulio Natta”
- Business or sector** Biomedical Engineering

Nov. 2011 – Feb. 2015

Associate professor of Mechanical Engineering

Universidad de Zaragoza, Pedro Cerbuna 9, 50009 Zaragoza, Spain (www.unizar.es)

- Professor of continuum and structural mechanics
 - Research at the department of Mechanical Engineering
- Business or sector** Mechanical engineering and Biomedical Engineering

Nov. 2008 – Oct. 2011

Associate research professor of Mechanical Engineering

Universidad de Zaragoza, Pedro Cerbuna 9, 50009 Zaragoza, Spain (www.unizar.es)

- Professor of continuum and structural mechanics
 - Research at the department of Mechanical Engineering
- Business or sector** Mechanical engineering and Biomedical Engineering

Dec 2003 – Oct. 2008

“Ramón y Cajal” research fellow

Instituto Universitario de Investigación en Ingeniería de Aragón (I3A). Universidad de Zaragoza. Mariano Esquillor S/N, 50018 Zaragoza, Spain (www.i3a.unizar.es)

- Research at the department of Mechanical Engineering and at I3A.
- Business or sector** Mechanical engineering and Biomedical Engineering

Dec. 2001 – Nov. 2003

Associate professor of Mechanical Engineering

Universidad Simón Bolívar. Valle de Sartenejas, 89000 Miranda, Venezuela (www.usb.ve)

- Professor of strength of materials, continuum mechanics and mechanical design.
 - Research at the department of Mechanics.
- Business or sector** Mechanical engineering

Sept. 1999 – Nov. 2001

Assistant professor of Mechanical Engineering

Universidad Simón Bolívar. Valle de Sartenejas, 89000 Miranda, Venezuela (www.usb.ve)

- Professor of strength of materials, continuum mechanics and mechanical design.
- Research at the department of Mechanics.

Business or sector Mechanical engineering

June 1993 – Aug. 1995

Instructor of Mechanical Engineering

Universidad Simón Bolívar. Valle de Sartenejas, 89000 Miranda, Venezuela (www.usb.ve)

- Professor of strength of materials and mechanical design.

Business or sector Mechanical engineering

EDUCATION AND TRAINING

Aug. 1995 – Aug. 1999

PhD in Mechanical Engineering

University of Notre Dame, Notre Dame, IN 46556 (USA)

- Nonlinear programming and optimization
- Continuum mechanics and experimental mechanics
- Final dissertation: "Modeling the mechanical behaviour of fused deposition Acrylonitrile-Butadiene-Styrene polymer components"

Sept. 1988 – June 1993

Mechanical Engineering

Universidad Simón Bolívar, Valle de Sartenejas, 89000 Miranda, Venezuela (www.usb.ve)

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	C1	C1	C1	C1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

- Publications
- Presentations
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References

Publications

Co-authored more than 126 scientific works in peer-reviewed international journals and 4 book chapters. Scopus ID: 7404693566. ORCID: 0000-0001-7612-266X. Scopus h-index: 38. (as of 01 November 2025).

Projects

- COMPUTES / COMBined biomarker criteri for coronary atherosclerotic Plaque rUpTurE aSsessment. Ministero della Università e della Ricerca (MUR). PI (POLIMI): Jose F Rodriguez Matas. (2025-2026)
- PERSUADE / PERsistent atrial fibrillation: SUBstrate tArgeteD strategy. ERA4Health-CARDINNOV-2023. PI (POLIMI): Jose F Rodriguez Matas. (2023-2026)
- GEMINI / A Generation of multi-scale digital twins of ischemic and hemorrhagic stroke patients HORIZON-HLTH-2023-TOOL-05-03. Task Manager of partner POLIMI. PI (Polimi): Francesco Migliavacca. (2023-2029)
- AI-CORPS / Trustworthy, integrated Artificial Intelligence tools for predicting high-risk CORonary PlaqueS, FRRB-UNIMET MEDICAL NEEDS. Work Package Leader. PI (POLIMI): Valentina Corino. (2023-2026)
- VThrombectomy / Improving Treatment of Ischemic Stroke Using Virtual Thrombectomy. HORIZON-MSCA-2022-PF-01. Head(s) researcher(s): Jose F Rodriguez Matas.
- ProPer (Protesica Personalizzata). Funding: Adler Ortho S.R.L. PI: Giancarlo Pennati / Jose F Rodriguez Matas. (2020-2021)
- BACOTRA – Progettazione di protesi di bacino e cotile trabecolari. Funding: Adler Ortho S.R.L. PI: Giancarlo Pennati / Jose F Rodriguez Matas. (2017-2018).
- INSIST / IN-Silico trials for treatment of acute Ischemic Stroke H2020-SC1-2017-CNECT-2. Task Manager of partner POLIMI. PI (Polimi): Francesco Migliavacca.
- MYATRIA / MultidisciplinarY training network for ATrial fibRillation monitoring, treAtment and progression H2020-MSCA-ITN-2017 (Grant No 766082). IRP supervisor. PI (Polimi): Luca Mainardi. (2017-2020)
- POPCORN / Development of corneal biomechanical model. Dynamic topographical characterization based on 3D plenoptic imaging (FP7-SME-2013 066634). Funding: European Union. Taks leader of the partner UNIZAR. PI: María Begoña Calvo Calzada. Number of researchers: 3. (2013-2015).
- TIN2012-37546-C03-03. Virtual Physiological Human Whole Heart: improvement in patient-oriented treatment of cardiac arrhythmias. Funding: MINECO. Ministerio de economía y competitividad (Spain). Principal investigator (2012-2015)
- PR2010-0552 Movilidad Mo Educación. Funding: Ministerio de Educación (Spain). Date: 01/03/2011. Duration: 4 month.
- LOCMOTIC-Localización del origen de arritmias cardíacas mediante modelado y tecnolgías de la información y comunicaciones. Funding: Ministerio de Industria, Turismo y Comercio (Spain). Coordinator from UNIZAR partner (2010-2013).
- PI144/09. Indices electrocardiográficos para el diagnóstico de la isquemia de miocardio. Correlación entre los mecanismos celulares y la arritmia ventricular. Funding: Aragon Government. Research supervisor. Principal investigator: Esther Pueyo Paules (2009-2011).
- DPI2007-30607-E Red temática de dinámica cardíaca y simulación multiescala cardiovascular. Spanish ministry of education and science. Principal investigator: Jose F Rodriguez Matas (2007-2008).
- PIP113/2005. Modelos multiresolución del miocardio personalizado a pacientes para el apoyo al diagnóstico de cardiopatías. Funding: Aragon Government. Research supervisor. Principal investigator: Jose F Rodriguez Matas (2005-2007).

Patents

- Dispositivo di protezione per soggetti monorene o con patologia renale. Authors: Rodriguez Matas JF, Spreafico F. Date of deposit: 2023 (<https://hdl.handle.net/11311/1261942>)
- Metodo per stimare in tempo reale il posizionamento finale di un dispositivo in un intervento mininvasivo per patologie vascolari e/o valvolari. Authors: Migliavacca F, Rodriguez Matas JF, Luraghi G, Bridio S. Date of deposit: 2023 (<https://hdl.handle.net/11311/1261948>)
- Method to estimate in real time the likelihood of success of thrombectomy surgery. Authors: Migliavacca F, Rodriguez Matas JF, Luraghi G, Bridio S, Ramella A, Barati, S. Date of deposit: 2023 (<https://hdl.handle.net/11311/1262999>)

Major Honors and Awards

- October 2003. Ramón y Cajal postdoctoral Fellowship. Spanish ministry of Science and Technology.
- September 1995. Four years, PhD tuition scholarship from the department of Aerospace and Mechanical Engineering (University of Notre Dame).
- September 1995. Four years graduate studies scholarship by Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICIT) from the Republic of Venezuela.

Additional Information

- Since 2016. Member of the Board of the doctoral program in Biomedical Engineering. Politecnico di Milano, Milano, Italy.
- Jan. 2010-Sept. 2014. Member of the Board of Quality Assurance of the master in Biomedical Engineering. Universidad de Zaragoza. Spain.
- Dec. 2007-Sept. 2014. Member of the Academic Board the master in Biomedical Engineering. Universidad de Zaragoza. Spain.
- Feb. 2002-Aug. 2003. Coordinator of graduate studies in Mechanical and Civil Engineering. Universidad Simón Bolívar. Venezuela.
- Feb. 2001- Jan. 2002. Coordinator of graduate studies in Mechanical Engineering. Universidad Simón Bolívar. Venezuela.
- Project reviewer for the Agencia Nacional de Evaluación y Prospectiva (ANEP) from the Spanish ministry of economy and competitiveness, and a number of international funding organizations i.e., National Science Center (Poland), Science Foundation Ireland (Ireland), Canadian Institute of Health.
- Member of the European Society of Biomechanics (ESB); the International society of Electric and Electronic Engineers (IEEE); founder member of the Italian group of bioengineering (GNB).
- Member of the organizing committee of the Computing in Cardiology Conference 2013 in Zaragoza-Spain.
- Member of the Local Organizing committee of the European Society of Biomechanics Conference 2020 in Milan-Italy.
- Co-chair of the 9th International Conference on the Virtual Physiological Human conference 2026 in Milan-Italy.
- Reviewer of International Journals: Annals of Biomedical Engineering, Journal of Biomechanics, Biomechanics and Modelling in Mechanobiology, International Journal of Solids and Structures, Medical and Biological Engineering and Computing, and others.
- Member of the European Society of Biomechanics (ESB) since 2004.