

Marcos Rojas-Cárdenas, PhD

Date of birth: _____

Professional Experience

Sept 2014 / today	Associate Professor / Maître de Conférences Mechanical Engineering Department Institut National de Sciences Appliquées (INSA) Toulouse Université Fédérale de Toulouse, France Research at Institut Clément Ader (ICA) : Experimental Techniques for Micro-gas Flows Teaching Responsible at the Bachelor level for Ideal Fluid Mechanics (3 rd year), Thermodynamics (2 nd year). Responsible at the Master level for Viscous Fluid Mechanics (4 th year) and the Scientific Initiation Module (4 th and 5 th year).
Sept 2021 / today	Head of the Microfluidics et Microreactors Axis of Fédération "Fluides, Energie, Réacteurs, Matériaux et Transferts" (FERMaT - CNRS 3089)
Sept 2016 / August 2018	Responsible for the International Relations with Latin America for INSA de Toulouse

March 2013 / August 2014	Post-Doc Mechanical Engineering Department Research Laboratories for Emerging Technologies in Cooling and Thermophysics (Polo) Federal University of Santa Catarina (UFSC) Florianópolis - Brazil Scholarship: CNPq Jovem Talento (Young Talent)
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Education

Sept 2009 / Sept 2012	<p>PhD / Marie Curie Early Stage Researcher</p> <ul style="list-style-type: none"> • Laboratoire IUSTI (Sept 2009 - Mars 2011 et Jan - Sept 2012) Université d'Aix-Marseille Marseille, France • ATG-Europe (Avril – Décembre 2011) Noordwijk, Pays Bas <p>Project: GASMEMS Scholarship: Programme Marie Curie – Initial Training Network Title: Thermally Driven Rarefied Gas Flows</p>
Sept 2006 / Feb 2009	<p>Master in Aerodynamics and Gasdynamics (M1 et M2) Mechanical Engineering Department Università degli Studi di Genova Genova, Italy</p>
Sept 2003 / August 2006	<p>Bachelor in Mechanical Engineering Università degli Studi di Genova Genova, Italy</p>

Languages

Spanish	Native
Italian	Bilingual
French	Professional usage. Oral and written level = C1
English	Professional usage. Oral and written level = C1
Portuguese	Oral B2 – Written B1

European projects

- 2020 / 2022 – PERSEUS 700 k€ (Clean Sky 2 HORIZON 2020): Pulsed Jet Actuators for Separation Control of Turbulent Flows..
- 2016 / 2019 – MACAO 368 k€ (Clean Sky 2 HORIZON 2020): Development of VOCs and ozone Micro-analysers based on microfluidic devices for Aircraft Cabin Air mOnitoring. <https://icpees.unistra.fr/en/macao-project-h2020/>
- 2015 / 2019 – MIGRATE 3.8 M€ (Marie Curie Horizon 2020 ITN-ETN n° 643095) Research and training network on Miniaturized Gas flow for Applications with enhanced Thermal Effects. <http://www.migrate2015.eu/93.php>

Member of the Scientific Committee in International Conferences :

- 4th European Conference on Non-equilibrium Gas Flows 2023. Eindhoven, the Netherlands. <https://negf23.sciencesconf.org/>

Member of the Organizing Committee in International and National Conferences

- MicroFlows and Non-equilibrium Gas Flows Conference 2018. Strasbourg, France. Membre du Comité d'Organisation Globale. <http://mflu-negf-2018.com/committees/>
- Congrès Français de Mécanique 2017. Lille, France. Organisateur avec Micheal Baudoin du Thème Scientifique « Microfluidique, nanofluidique et écoulements à interface ». <https://cfm2017.sciencesconf.org/resource/page/id/5#S6>

Invited Speaker in International Seminars

- Universidad de Talca, Curicò, Chile. 11/2021. Invité par Professeur Karin Saavedra.
- Pontificia Universidade Catolica de Rio de Janeiro (PUC-Rio), Brésil. 07/01/2014. Invité par Professeur Luis Fernando Azevedo.

- University of Michigan, USA. 27/03/2014. Invité par Professeur Yogesh Gianchandani.
- University of Reno, USA. Séries de conférences. 31/03/2014 – 04/04/2014. Invité par Professeur Miles Greiner.

Invited Speaker at Summer Schools

- 2017 MIGRATE Summer School, Sofia, Bulgaria. Title: "Measurements of Accommodation Coefficients".
- 2016 MIGRATE Summer School, Strasbourg, France. Title: "Measurements of Accommodation Coefficients"

Reviewer for international scientific journals

- Journal of Fluid Mechanics
- International Journal of Heat and Mass Transfer
- Experimental Thermal Fluid Science
- Journal of Vacuum Science and Technology
- European Journal of Mechanics
- Micromachines
- Vacuum