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Chair of Mechanical Process Engineering

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Vita

Romain Janodet's research focuses on developing efficient numerical methods for the simulation of interfacial two-phase flows a all speed, both on cartesian and unstructured meshes. More specifically, the goal is to build a unified conservative pressure-bas numerical framework for interfacial flows, of incompressible and compressible fluids at all speeds, applicable to compressible, incompressible, and compressible-incompressible flows.

Vita:

- Since 2022: Postdoctoral researcher, Otto-von-Guericke-Universität Magdeburg, Germany
- 2018-2022: PhD (CIFRE grant), INSA of Rouen, Energy & Propulsion department, France
- *Numerical Simulation of Primary Atomization in Aeronautical Injectors, using a Massively Parallel Adaptive Mesh Refinement Technique* prepared at CORIA-CNRS laboratory and Safran Tech, under the supervision of Dr. Vincent Moureau (CORIA), D Renaud Mercier (Safran Tech), and Dr. Alain Berlemont (CORIA)
- 2017: Master thesis, University of Toronto Institute for Aerospace Studies (UTIAS), CFD & Propulsion Group, Canada, *Numerical Evaluation of the Transition Boundary Between Regular and Mach Reflections for a Moving Shock Interacting with Wedge in Sulfur Hexafluoride* under the supervision of Prof. Clinton P. T. Groth & Prof. James J. Gottlieb
- 2017: MSc in Fluid Mechanics, Heat Transfer, Combustion, CentraleSupélec (formerly Ecole Centrale Paris), EM2C laborato Châtenay-Malabry, France
- 2017: MEng in Aerospace Engineering, EPF - Ecole d'Ingénieurs, Sceaux, France
- 2015: Intern at the Guiana Space Centre (CNES-CSG), Range operation office, Kourou, France
- 2015: BSc in Mechanical Engineering, EPF - Ecole d'Ingénieurs, Sceaux, France