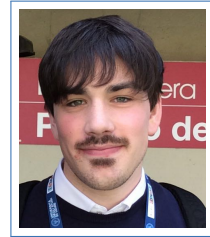


Francesco Giacomelli

Curriculum Vitae

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Education

- Nov 2015 **Ph.D. Student**, *University of Florence*, Department of Industrial Engineering, *DIEF*.
Subject Experimental and Numerical analysis of supersonic ejectors working with natural fluids.
- 2012–2015 **Master of Energy Engineering**, *University of Florence*, vote: 110/110.
- 2009–2012 **Bachelor of Mechanical Engineering**, *University of Florence*.

Master's Thesis

- Title *Numerical Modeling of a Supersonic Two-Phase Flow of CO₂ Inside a Converging-Diverging Nozzle*
- Supervisors Professor Giuseppe Grazzini, Dr. Adriano Milazzo, Dr. Federico Mazzelli

Publications

- 2016 **Evaporation in supersonic CO₂ ejectors: analysis of theoretical and numerical models**, F. GIACOMELLI, F. MAZZELLI AND A. MILAZZO, International Conference on Multiphase Flow, Firenze, Italy.
- 2016 **CFD Modeling of High-Speed Condensation in Supersonic Nozzles, Part I: Steam**, F. GIACOMELLI, F. MAZZELLI AND A. MILAZZO, Thermacomp conference, Atlanta, U.S.A.
- **CFD modeling of the supersonic condensation inside a steam ejector**, F. GIACOMELLI, G. BIFERI, F. MAZZELLI AND A. MILAZZO, Energy Procedia. To be published
 - **CFD modelling of the condensation inside a supersonic ejector working with R134a**, G. BIFERI, F. GIACOMELLI, F. MAZZELLI AND A. MILAZZO, Energy Procedia. To be published

Awards

- 2016 Licensed Industrial Engineer in Italy

Computer Skills

Worked as computer technician for architectural firms, configuring hardware and software of several workstations and network devices.

Basic **ANSYS CFX**, Mac OSX.

Intermediate **C, ANSYS ICEM, ANSYS CFD-Post, \LaTeX , VBA.**

Advanced **Matlab, ANSYS Fluent, Linux**, Microsoft Office.

Communication Skills

2016 Oral Presentation at the International Conference on Multiphase Flow, Firenze (Italy)

2016 Oral Presentation at the ThermoComp Conference, Georgia-Tech, Atlanta (U.S.A)

2016 Lectures of Engineering Thermodynamics at the University of Florence, Firenze

2016 Supervisor of Bachelor's and Master's students

Languages

Italian **Mothertongue**

English **Fluent**

Speaking and Writing

Research Interests

- CFD

- Refrigeration with Natural Fluids

- Numerical Modeling

- Ejector Tecnology