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CETHIL
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Bât. Sadi Carnot, INSA-Lyon
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CURRENT POSITION

Since Sept. 2016

Full Professor at INSA (National Institute of Applied Sciences) Lyon, France

Teaching: Department of Energy and Environmental Engineering (GEN).

Research: Center for Energy and Thermal Sciences of Lyon (CETHIL UMR 5008 CNRS)

EDUCATION

2011: Habilitation à Diriger des Recherches (accreditation to supervise research) of the University of Lyon: « Thermohydraulique des écoulements diphasiques liquide-vapeur : approche multi-échelle »

2006: PhD Thesis in the Mechanical Engineering Institute at EPFL (LTCM), Switzerland.

«Experimental two-phase fluid flow in microchannels». Thesis was awarded **EUROTHERM Young Scientist Prize in 2008**.

2002: MSc in Energy and Environmental Engineering at INSA Lyon, France.

EXPERIENCE

- From Nov. 2011 to August 2016: Associate Professor at INSA Lyon, France
- From Sept. 2007 to Oct. 2011: Assistant Professor at INSA Lyon, France
- From Oct. 2006 to Aug. 2007: Post-doc CNRS at INSA Lyon, France
- From Feb. 2006 to Sept. 2006: Post-doc at EPFL (LTCM), Switzerland
- From Oct. 2002 to Jan. 2006: PhD Student at EPFL (LTCM), Switzerland
- From April. 2001 to Sept. 2001: Research internship at the University of Ottawa, Canada

RESEARCH INTERESTS

Experimental thermal-hydraulics of **two-phase flow**. Development of measurement techniques. Theoretical modeling and numerical simulations (VOF method).

Experimental study on **frost deposition**.

Modeling of heating and cooling thermodynamic systems.

SUPERVISION

PhD Thesis

Since 2008: 2 theses defended, 5 in progress.

Master student research projects

11 students since 2007

SCIENTIFIC INFLUENCE

- **Prizes**
 - **EUROTHERM Young Scientist Prize** in 2008
 - **Biot-Fourier Award** 2014 from the French Society of Thermal Sciences (Romain Charnay, Rémi Revellin, Jocelyn Bonjour)
- **Publications** (*h*-index = 17 (scopus) with 600 citations total)
 - 47 articles in peer-reviewed international journals
 - 34 international conferences with proceedings (4 invited keynote lectures)
 - 3 chapters of book

CONTRACTS AND GRANT EXPERIENCE

- **Thesis CSC (China Scholarship Council) (2013-2017):** Numerical simulations of two-phase flows (122.5 k€).
- **Thesis CIFRE (2014-2017) with CETIAT (industrial contract):** Experimental study of frost deposition (45 k€).
- **Axelera VALENTIN (2013-2018):** Energy recovery of industrial waste heat (200 k€).
- **ADEME TIGRE (2010-2014):** Innovative technologies for efficient trucks (400 k€).
- **FRAE MATRAS (2009-2012) project:** Refrigerating machine for the cooling of a satellite (155 k€).
- **Industrial contract with Groupe Seb (2011-2012-2013):** 40 k€.
- **Industrial contract with ARKEMA (2010):** new fluid HFO-1234yf.
- **Industrial contract with Thalès Aléria Space (2009):** Design of a micro-evaporator for electronics cooling (10 k€).
- **ANR INTENSIFILM (2007):** Liquid films and heat transfer enhancement in microsystems and porous media.