

ROSTER

Name/Term		Area of Research
Postdoctoral Fellows		
BERMEJO-MORENO, Dr. Iván 07/2009–07/2014	(Ph.D. Aeronautics, 2008, California Institute of Technology, USA)	LES of compressible flows; structure of tur- bulence
EMORY, Dr. Michael 04/2014–present	(Ph.D. Mechanical En- gineering 2013, Stanford University, USA)	Uncertainty quantification, high- performance comput- ing, hypersonic and su- perersonic flows, visual- ization and communi- cation of quantitative data
ESMAILY, Dr. Mahdi 09/2014–present	(Ph.D. Mechanical and Aerospace Engineering 2014, University of Cali- fornia San Diego, USA)	Cardiovascular fluid mechanics modeling and simulation, devel- opment of multiscale and high-performance computational tools to be used in clinical setting.
FRANZELLI, Dr. Benedetta 11/2013–12/2014	(Ph.D. Fluid Dynamics and Combustion, 2011, CERFACS and Institut National Polytechnique de Toulouse, France)	Theoretical, experi- mental and numeri- cal characterization of sooting and spray tur- bulent flames
GERACI, Dr. Gianluca 03/2014–present	(Ph.D. Applied Math- ematics and Scientific Computing, 2013, IN- RIA and University of Bordeaux, France)	Uncertainty quanti- fication, computational fluid dynamics, design under uncertainty

KARATAY, Dr. Elif 11/2013–present	(Ph.D. Interfacial Transport of Mass and Momentum in Microfluidics, 2013, University of Twente, Netherlands)	Experimental and numerical nonlinear, electrokinetic instability and hydrodynamic chaos near charged interfaces
KIM, Dr. Jeonglae 03/2014–present	(Ph.D. Theoretical and Applied Mechanics, 2012, University of Illinois at Urbana-Champaign, USA)	Computational aeroacoustics, combustion-induced noise, adjoint-based optimization, high-fidelity, massively parallel simulation of turbulent flows
KOTOV, Dr. Dmitry 07/2011–07/2014	(Ph.D. Physics and Mathematics, 2010, Moscow Institute of Physics and Technology, Russia)	Multiscale complex shock/turbulence interaction
OVSYANNIKOV, Dr. Andrey 10/2013–present	(Ph.D. Fluid Mechanics, 2013, Ecole Centrale, Lyon, France)	Computational fluid dynamics, two-phase flows, interface and shock-capturing schemes
PARK, Dr. George 10/2014–present	(Ph.D. Mechanical Engineering 2014, Stanford University, USA)	Large-eddy simulations, subgrid-scale modeling for particle-laden flows
RAHMANI, Dr. Mona 09/2014–present	(Ph.D. Civil Engineering, 2011, University of British Columbia, Canada)	Particle-laden flows, mixing and turbulence in stratified flows
SEE, Dr. Yee Chee 04/2014–present	(Ph.D. Aerospace Engineering, 2010, University of Michigan Ann Arbor, USA)	Combustion, linear stability analysis, LES, numerical methods
VIÉ, Dr. Aymeric 05/2013–10/2014	(Ph.D. Computational Fluid Dynamics, 2010, Institut National Polytechnique de Toulouse, France)	Modeling and numerical methods for particle/droplet-laden flows

Research Associate

URZAY, Dr. Javier
04/2011–present

(Ph.D. Aerospace Engineering, 2010, University of California, San Diego, USA)

Chemically-reacting flows, combustion and plasmas, multi-phase flows, low-Reynolds hydrodynamics

Visiting Researcher

ČANTRAK, Dr. Đorđe

University of Belgrade, Serbia

Hydraulic machines and energy systems, applied fluid mechanics, experimental methods and measurements in fluids

Senior Research Fellows

HAM, Dr. Frank

Cascade Technologies Inc., Palo Alto CA

LES for complex flows with heat transfer

JIMÉNEZ, Prof. Javier

School of Aeronautics, Universidad Politécnica de Madrid, Spain; and Center for Turbulence Research

Turbulent flows

POINSOT, Dr. Thierry

Institut de Mécanique des Fluides de Toulouse, CNRS; Institut National Polytechnique de Toulouse, France; and Center for Turbulence Research

Turbulent combustion

2014 STEERING COMMITTEE

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