

ROSTER

Name/Term		Area of Research
Postdoctoral Fellows		
ANDERSEN, Dr. Mathias 06/2012–present	(Ph.D. Micro- and Nanotechnology, 2012, Technical University of Denmark, Denmark)	Nonlinear electrokinetic transport in porous media
BERMEJO-MORENO, Dr. Iván 07/2009–present	(Ph.D. Aeronautics, 2008, California Institute of Technology, USA)	LES modeling and high speed flow
BODART, Dr. Julien 01/2011–present	(Ph.D. Space and Aeronautics, 2009, Institut National Polytechnique de Toulouse, France)	Wall-modeling in LES, multiphase flow simulations
COLETTI, Dr. Filippo 06/2011–present	(Ph.D. Aerospace Engineering, 2010, University of Stuttgart, Germany)	Turbulent transport & mixing, medical imaging of fluid mechanics
CONSTANTINE, Dr. Paul 01/2011–present	(Ph.D. Computational and Mathematical Engineering, 2009, Stanford University, USA)	Uncertainty quantification, reduced order modeling
DOMBARD, Dr. Jérôme 01/2012–12/2012	(Ph.D. Computational Fluid Dynamics, 2011, Institut National Polytechnique, Toulouse, France)	LES of complex flows, uncertainty quantification
GARCÍA-MAYORAL, Dr. Ricardo 02/2012–present	(Ph.D. Aerospace, 2011, Universidad Politécnica de Madrid, Spain)	Wall-bounded turbulence, physics-based wall models for LES
GORLÉ, Dr. Catherine 04/2010–12/2012	(Ph.D. Aerodynamics, 2010, von Karman Institute for Fluid Dynamics and University of Antwerp, Belgium)	Model form uncertainty quantification of RANS simulations for turbulent flow and mixing

KAH, Dr. Damien 06/2011–present	(Ph.D. Energetics, 2010, École Centrale, Paris, France)	Modeling and numerical simulation of multi-phase flow, combustion
KAUL, Dr. Colleen 08/2011–11/2012	(Ph.D. Mechanical Engineering, 2011, University of Texas at Austin, USA)	LES of turbulent reacting flows
KNUDSEN, Dr. Ed 11/2009–06/2012	(Ph.D. Mechanical Engineering, 2009, Stanford University, USA)	LES of reactive flow
KOTOV, Dr. Dmitry 07/2011–present	(Ph.D. Physics and Mathematics, 2010, Moscow Institute of Physics and Technology, Russia)	Multiscale complex shock/turbulence interaction
SCALO, Dr. Carlo 08/2012–present	(Ph.D. Mechanical and Materials Engineering, 2012, Queen’s University, Canada)	Thermoacoustics
URZAY, Dr. Javier 03/2011–present	(Ph.D. Aerospace Engineering, 2010, University of California, San Diego, USA)	Spray combustion, liquid films, combustion theory and asymptotic analysis
WITTEVEEN, Dr. Jeroen 07/2009–12/2012	(Ph.D. Aerospace Engineering, 2009, Delft University of Technology, Netherlands)	Uncertainty quantification
ZAMANSKY, Dr. Rémi 01/2012–present	(Ph.D. Fluid Dynamics, 2011, École Centrale de Lyon, France)	Numerical simulation and modeling of multi-phase flow
Research Associates		
KIM, Dr. Dokyun 06/2011–present	(Ph.D. Mechanical Engineering, 2011, Stanford University, USA)	Multi-phase turbulent flows
KITIASHVILI, Dr. Irina 01/2008–present	(Ph.D. Astronomy 2005, Engelgardt Astronomical Observatory of Karzan University, Russia)	Solar physics

LARSSON, Dr. Johan 09/2006–10/2012	(Ph.D. Mechanical Engineering, 2006, University of Waterloo, Canada)	Shock/turbulence interaction, wall-modeling for LES, uncertainty quantification
NICHOLS, Dr. Joseph 03/2009–present	(Ph.D. Mechanical Engineering, 2005, University of Washington, USA)	Jet noise and stability analysis
PALACIOS, Dr. Francisco 01/2011–present	(Ph.D. Applied Mathematics, 2008, Autonomous University of Madrid, Spain)	Multi-physics flow simulation, optimal shape design, adjoints, numerical analysis
ZHAO, Hong 01/2009–10/2012	(Ph.D. Theoretical and Applied Mathematics, 2006, University of Illinois, Urbana-Champaign, USA)	Biofluids
Visiting Fellow		
SCHIAVAZZI, Dr. Daniele 10/2011–present	(Ph.D. Civil and Environmental Engineering, 2012, Università degli Studi di Padova, Italy)	Uncertainty quantification, denoising of incompressible flows
Senior Visiting Fellows		
ABE, Dr. Hiroyuki 02/2012–present	Japan Aerospace Exploration Agency, Japan	DNS and modeling of turbulent boundary layers
BASTIAANS, Prof. Rob 05/2012–07/2012	Eindhoven University of Technology, Netherlands	Reactive flow simulations
DABIRI, Prof. John 08/2012–12/2012	California Institute of Technology, USA	Wind power, biological propulsion
JOVANOVIĆ, Prof. Mihailo 01/2012–07/2012	University of Minnesota, USA	Dynamics and control of fluid flows
MASSOT, Prof. Marc 08/2011–07/2012	École Centrale Paris, Laboratoire EM2C - UPR CNRS 288, France	Mathematical modeling and simulation of multi-phase flows, numerical analysis

Senior Research Fellow

JIMÉNEZ, Prof. Javier
1987–present

Universidad Politécnica,
Spain, and Center for
Turbulence Research

Turbulent boundary
layers

2012 STEERING COMMITTEE

Prof. Juan Alonso
Aeronautics and Astronautics,
Stanford University

Prof. Sanjiva K. Lele
Mechanical Engineering and
Aeronautics and Astronautics,
Stanford University

Prof. John Dabiri
Aeronautics and Bioengineering,
California Institute of Technology
Senior Fellow,
Center for Turbulence Research

Prof. Ali Mani
Mechanical Engineering,
Stanford University

Prof. Gianluca Iaccarino
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Prof. Marc Massot
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École Centrale Paris
Senior Fellow,
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Prof. Mihailo Jovanović
Electrical and Computer Engineering,
University of Minnesota
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Prof. Parviz Moin
Mechanical Engineering,
Stanford University
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Center for Turbulence Research