

ROSTER

Name/Term		Area of Research
Postdoctoral Fellows		
ABKAR, Dr. Mahdi 11/2015–present	(Ph.D. Mechanical Engineering 2014, Ecole Polytechnique Federale de Lausanne, Switzerland)	Large-eddy simulation and subgrid-scale modeling for atmospheric boundary layers, wind energy
BANUTI, Dr. Daniel 02/2016–present	(Ph.D. Aerospace Engineering 2014, University of Stuttgart, Germany)	Numerical simulations and thermodynamic studies of supercritical injection, mixing, and combustion
EDELING, Dr. Wouter 11/2015–present	(Ph.D. Aerospace Engineering, 2015, Delft University of Technology, The Netherlands)	Uncertainty quantification of turbulent flows
ESCLAPEZ, Dr. Lucas 08/2015–08/2016	(Ph.D. Energy, 2015, Institut National Polytechnique, France)	Large-eddy simulations of turbulent reactive flows, spray combustion
ESMAILY-MOGHADAM, Dr. Mahdi 09/2014–present	(Ph.D. Mechanical Engineering 2014, University of California, San Diego, USA)	Numerical methods, biomedical applications, and particle-laden flows
GHAISAS, Dr. Niranjana 07/2015–present	(Ph.D. Mechanical Engineering, 2013, Purdue University, USA)	Eulerian methods for large-deformation solid-fluid problems, subgrid-scale modeling, and wind-turbine farm simulations
HACK, Dr. Philipp 01/2015–present	(Ph.D. Mechanical Engineering, 2014, Imperial College London, UK)	Computational and theoretical studies of transitional flows, stability analysis, optimization, and machine learning

JOFRE, Dr. Lluís 02/2015–present	(Ph.D. Mechanical Engineering, 2014, Technical University of Catalonia, Spain)	Numerical methods for two-phase flows, transcritical flows, and uncertainty quantification.
KIM, Dr. Jeonglae 03/2014–present	(Ph.D. Theoretical and Applied Mechanics, 2012, University of Illinois at Urbana-Champaign, USA)	Large-eddy simulation of external aerodynamics, combustion-induced noise, combustion energy transfer, and flow control
LOZANO-DURÁN, Dr. Adrian 04/2016–present	(Ph.D. Aerospace Engineering, 2015, Technical University of Madrid, Spain)	Numerical studies of wall-bounded turbulence, and wall-models for large eddy simulation
LV, Dr. Yu 07/2016–present	(Ph.D. Mechanical Engineering, 2016, Stanford University, USA)	High-order numerical methods for combustion waves and compressible flows
MAGRI, Dr. Luca 09/2015–03/2016	(Ph.D. Energy, Fluids and Turbomachinery Engineering 2015, University of Cambridge, UK)	Predictability and data assimilation in turbulent combustion, thermo-acoustic instabilities, and adjoint methods
MISHRA, Dr. Aashwin 09/2015–present	(Ph.D. Aerospace Engineering, 2014, Texas A&M University, USA)	Uncertainty quantification, statistical modeling, machine learning, and Bayesian inference
PARK, Dr. George 10/2014–present	(Ph.D. Mechanical Engineering, 2014, Stanford University, USA)	Wall-modeled large-eddy simulation, subgrid-scale modeling for particle-laden flows
RAJU, Dr. Muralikrishna 03/2015–present	(Ph.D. Physics, 2015, Pennsylvania State University, USA)	Computational chemistry, molecular dynamics, and supercritical fluids
TOWNE, Dr. Aaron 02/2016–present	(Ph.D. Mechanical Engineering, 2015, California Institute of Technology, USA)	Aeroacoustics, hydrodynamic instability

VILLAFANE-ROCA, Dr. Laura 09/2014–present	(Ph.D Mechanical Engineering, 2013, von Kármán Institute for Fluid Dynamics, Bel- gium)	Experimental fluid me- chanics, and particle- laden flows
YANG, Dr. Xiang 07/2016–present	(Ph.D. Mechanical Engi- neering, 2016, The Johns Hopkins University, USA)	Wall-modeled large-eddy simulation
Senior Research Engineer		
URZAY, Dr. Javier 04/2011–present	(Ph.D. Aerospace Engi- neering, 2010, University of California, San Diego, USA)	Multi-physics fluid mechanics, chemically- reacting, high-speed, and multi-phase tur- bulent flows
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	Analysis of turbulent flows
POINSOT, Dr. Thierry	Institut de Mécanique des Fluides de Toulouse, and CNRS, France	Laminar and turbu- lent combustion, the- ory, simulations and experiments, combus- tion instabilities
Visiting Scholars		
LEHMKUHL, Dr. Oriol	Technical University of Catalonia, Spain	LES in complex geom- etry and wall modeling
Visiting Student Researcher		
FLINT, Mr. Tim	University of Canterbury, New Zealand	Shape optimization, cavitation, and fluid dynamics of the upper airway in humans

2016 STEERING COMMITTEE

Dr. Javier Urzay
Center for Turbulence Research,
Stanford University

Prof. John O. Dabiri
Civil and Environmental Engineering,
and Mechanical Engineering,
Stanford University

Prof. Gianluca Iaccarino
Mechanical Engineering,
Stanford University

Prof. Parviz Moin
Director,
Center for Turbulence Research;
Mechanical Engineering,
Stanford University

Prof. Ali Mani
Mechanical Engineering,
Stanford University

Prof. Matthias Ihme
Mechanical Engineering,
Stanford University

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