

ROSTER

Name/Term		Area of Research
Postdoctoral Fellows		
ABKAR, Dr. Mahdi 11/2015–06/2017	(Ph.D. Mechanical Engineering, 2014, Ecole Polytechnique Federale de Lausanne, Switzerland)	Large-eddy simulation and subgrid-scale modeling for atmospheric boundary layers, and wind energy
BANUTI, Dr. Daniel 02/2016–08/2017	(Ph.D. Aerospace Engineering, 2014, University of Stuttgart, Germany)	Numerical simulations and thermodynamic studies of supercritical injection, mixing, and combustion
CHO, Dr. Minjeong 11/2017–present	(Ph.D. Mechanical and Aerospace Engineering, 2017, Seoul National University, Korea)	Wall-modeled large eddy simulation, wall-bounded turbulence, and multiphase flows
DODD, Dr. Michael 10/2017–present	(Ph.D. Aeronautics and Astronautics, 2017, University of Washington, USA)	Numerical methods and large-scale direct numerical simulations for multiphase turbulent flows
EDELING, Dr. Wouter 11/2015–10/2017	(Ph.D. Aerospace Engineering, 2015, Delft University of Technology, The Netherlands)	Uncertainty quantification in turbulent flows
ESMAILY-MOGHADAM, Dr. Mahdi 09/2014–12/2017	(Ph.D. Mechanical Engineering, 2014, University of California San Diego, USA)	Numerical methods, biomedical applications, and particle-laden flows

GHAISAS, Dr. Niranjan 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
GIOMETTO, Dr. Marco 06/2017–12/2017	(Ph.D. Mechanical Engineering, 2016, Ecole Polytechnique Federale de Lausanne, Switzerland)	Non-equilibrium turbulent boundary layers and atmospheric turbulence
HACK, Dr. Philipp 01/2017–present	(Ph.D. Mechanical Engineering, 2014, Imperial College London, United Kingdom)	Computational and theoretical studies of transitional flows, stability analysis, optimization, and machine learning
JARAVEL, Dr. Thomas 01/2017–present	(Ph.D. Mechanical Engineering, 2016, Institute National Polytechnique Toulouse, France)	Numerical studies of multiphase flow combustion, heat transfer and radiation
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
JOHNSON, Dr. Perry 09/2017–present	(Ph.D. Mechanical Engineering, 2017, Johns Hopkins University, USA)	Small-scale turbulence, particle-laden flows, and near-wall turbulence dynamics
KARP, Dr. Michael 09/2017–present	(Ph.D. Aerospace Engineering, 2017, Technion Israel Institute of Technology, Israel)	Aerodynamics, flow instabilities, transition to turbulence, flow control, and flight mechanics

KIM, Dr. Jeonglae 03/2014–12/2017	(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
LABAHN, Dr. Jeffrey 09/2016–present	(Ph.D. Mechanical Engineering, 2016, University of Waterloo, Canada)	Large-eddy simulation and numerical methods for turbulent combustion
LOZANO-DURÁN, Dr. Adrian 01/2016–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 07/2016–08/2017	(Ph.D. Mechanical Engineering, 2016, Stanford University, USA)	High-order numerical methods for combustion waves and compressible flows
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
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, reduced-order modeling and hydrodynamic instability
VILLAFANE, Dr. Laura 09/2014–present	(Ph.D. Mechanical Engineering, 2013, von Kármán Institute for Fluid Dynamics, Belgium)	Experimental fluid mechanics, and particle-laden flows
YANG, Dr. Xiang 07/2016–12/2017	(Ph.D. Mechanical Engineering, 2016, The Johns Hopkins University, USA)	Wall models for large-eddy simulation

Engineering Research Associate

PARK, Dr. George 10/2014–12/2017	(Ph.D. Mechanical Engineering, 2014, Stanford University, USA)	Wall models for large-eddy simulation, and subgrid-scale modeling for particle-laden flows
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Senior Research Engineer

URZAY, Dr. Javier 04/2011–present	(Ph.D. Aerospace Engineering, 2010, University of California San Diego, USA)	Multi-physics fluid mechanics, chemically-reacting, high-speed, and multi-phase turbulent flows.
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Senior Research Fellows

HAM, Dr. Frank	Cascade Technologies Inc., Palo Alto CA, USA	Large-eddy simulation and numerical methods for complex flows with heat transfer
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JIMÉNEZ, Prof. Javier	School of Aeronautics, Universidad Politécnica de Madrid, Spain	Numerical simulations of wall-bounded turbulence
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POINSOT, Dr. Thierry	Institut de Mécanique des Fluides de Toulouse, and CNRS, France	Numerical simulations of combustion, and combustion instabilities
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Visiting Student Researcher

DI RENZO, Mr. Mario	Politecnico di Bari, Italy	Electric-field effects on combustion, electrically charged particle-laden turbulence
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2017 STEERING COMMITTEE

Dr. Javier Urzay
Center for Turbulence Research
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Stanford University

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