# ROSTER

| Name/Term | | Area of Research |
|---|---|---|
| **Postdoctoral Fellows** | | |
| ADLER, Dr. Michael<br>07/2019–present | (Ph.D. Aeronautical and Astronautical Engineering, 2019, Ohio State University, USA) | Shock-boundary-layer interactions, wall modeling, Richtmyer-Meshkov instability and elastic/plastic deformation of interfaces |
| BANKO, Dr. Andrew<br>02/2018–present | (Ph.D. Mechanical Engineering, 2018, Stanford University, USA) | Magnetic resonance imaging, scalar dispersion, heat transfer, data-driven turbulence modeling, particle-laden flows, radiation |
| CHO, Dr. Minjeong<br>11/2017–08/2019 | (Ph.D. Mechanical and Aerospace Engineering, 2017, Seoul National Univeristy, Korea) | Wall-modeled large eddy simulation, wall-bounded turbulence, and multiphase flows |
| DI RENZO, Dr. Mario<br>01/2019–12/2019 | (Ph.D. Mechanical Engineering, 2018, Politecnico di Bari, Italy) | Hypersonic and supersonic flows, reacting flows, particle-laden turbulent flows, and flow control using electric fields |
| DODD, Dr. Michael<br>10/2017–08/2019 | (Ph.D. Aeronautics and Astronautics, 2017, University of Washington, USA) | Numerical methods and large-scale direct numerical simulations for multiphase turbulent flows |
| DOUASBIN, Dr. Quentin<br>01/2019–present | (Ph.D. Numerical Combustion, 2018, Institut de Mécanique des Fluides de Toulouse, France) | Thermoacoustics, supercritical combustion, acoustic field analysis and reconstruction |

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|---|---|---|
| FU, Dr. Lin<br>01/2018–present | (Ph.D. Fluid Mechanics, 2017, Technical University of Munich, Germany) | High-order TENO schemes, large eddy simulations, MHD and multiphase flows, SPH and domain decomposition methods |
| HUANG, Dr. Zhu<br>03/2018–present | (Ph.D. School of Energy and Power Engineering, 2015, Xi'an Jiaotong University, China) | Nonlinear stability of shear flows, and flow control and spectral methods in CFD |
| JEUN, Dr. Jinah<br>01/2019–present | (Ph.D. Aerospace Engineering and Mechanics, 2018, University of Minnesota, USA) | Computational aeroacoustics, flow stability, and reduced-order modeling |
| JOFRE, Dr. Lluis<br>02/2015–12/2019 | (Ph.D. Mechanical Engineering, 2014, Technical University of Catalonia, Spain) | Numerical methods for computational fluid dynamics and multiphase flows |
| JOHNSON, Dr. Perry<br>09/2017–present | (Ph.D. Mechanical Engineering, 2017, Johns Hopkins University, USA) | Small-scale and wall turbulence, particle -laden flows |
| KARP, Dr. Michael<br>09/2017–present | (Ph.D. Aerospace Engineering, 2017, Technion Israel Institute of Technology, Israel) | Aerodynamics, fluid mechanics, flow instabilities, transition to turbulence, flow control and flight mechanics |
| LI, Dr. Dong<br>08/2018–09/2019 | (Ph.D. Thermal Engineering, 2016, Zhejiang University, China) | Numerical studies of particle-laden wall-bounded turbulent flows and heat transfer |
| LOZANO-DURÁN, Dr. Adrián<br>01/2016–present | (Ph.D. Aerospace Engineering, 2015, Universidad Politécnica de Madrid, Spain) | Numerical studies of wall-bounded turbulence, and wall-models for large eddy simulation |

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| MAEDA, Dr. Kazuki<br>08/2019–present | (Ph.D Mechanical Engineering, 2018, California Institute of Technology, USA) | Physics, modeling, and simulation of high-speed, multi-component flows, and their engineering applications |
| MIRJALILI, Dr. Shahab<br>07/2019–present | (Ph.D Mechanical Engineering, 2019, Stanford University, USA) | Numerical methods and physics of two-phase flows, electrokinetics in plasma regimes, and machine learning |
| PAUL, Dr. Immanuvel<br>05/2018–present | (Ph.D. Specialized in Turbulence, 2017, Imperial College London, United Kingdom) | Fractal-grid-generated turbulence, fine-scale structure of fluid and scalar turbulence, numerical heat transfer |
| SHAO, Dr. Changxiao<br>12/2018–present | (Ph.D. Energy Engineering, 2017, Zhejiang University, China) | Large eddy simulation of spray combustion and analysis of combustion noise |

**Research Associate**

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|---|---|---|
| HACK, Dr. Philipp<br>01/2017–present | (Ph.D. Thermofluids, 2014, Imperial College London, United Kingdom) | Computational and and theoretical studies of transitional flows, stability analysis, optimization, and machine learning |

**Senior Research Engineer**

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|---|---|---|
| URZAY, Dr. Javier<br>04/2011–present | (Ph.D. Aerospace Engineering, 2010, University of California San Diego, USA) | Chemically-reacting turbulent flows, multi-phase turbulent flows, hypersonics, and high-speed chemical propulsion |

**Senior Research Fellows**

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|---|---|---|
| HAM, Dr. Frank | Cascade Technologies Inc., USA | LES and numerical methods for complex flows with heat transfer |
| JIMÉNEZ, Prof. Javier | School of Aeronautics, Universidad Politécnica de Madrid, Spain | Numerical simulations of wall-bounded turbulence |
| POINSOT, Dr. Thierry | Institut de Mécanique des Fluides de Toulouse, and CNRS, France | Laminar and turbulent combustion, theory, simulations and experiments, combustion instabilities |

# 2019 STEERING COMMITTEE

Dr. Javier Urzay
Center for Turbulence Research
Stanford University

Prof. Matthias Ihme
Mechanical Engineering
Stanford University

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

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

Prof. Ali Mani
Mechanical Engineering
Stanford University

Prof. Gianluca Iaccarino
Mechanical Engineering
Stanford University