## ROSTER

Name/Term		Area of Research
Postdoctoral Fellows		
BROUZET, Dr. Davy $10/2020$ -present	Ph.D. Mechanical Engineering, 2020, University of Melbourne, Australia	Turbulent combustion, aeroacoustics and combustion noise, direct numerical simul- ation, and large-eddy simulations of reacting flows
GOMEZ, Dr. Salvador 11/2023—present	Ph.D. Aeronautics, 2023, California Institute of Technology	Resolvent analysis, hydrodynamic stability, compressible turbulent flows, direct numerical simulation
GONZALEZ-HERNANDEZ, Dr. Carlos 01/2023–01/2024	Ph.D. Applied Mathematics and Mathematical Physics, 2020, Imperial College London, UK	Physics of turbulent shear flows, boundary layer receptivity, reduced-order modeling of high-speed flows, data-driven methods
HWANG, Dr. Hanul 04/2022–present	Ph.D. Mechanical Engineering, 2022, Stanford University	Multiphase flows, hydrodynamic stability, atomization, wind-wave interaction, and numerical methods
JAIN, Dr. Suhas 01/2022–12/2023	Ph.D. Mechanical Engineering, 2022, Stanford University	Multiphase flows, compressible turbulent flows, fluid-structure interaction, high-per- formance computing, scientific computing

JAROSLAWSKI, Dr. Tomek Ph.D. Fluid Mechan-Experimental fluid mechanics, transitional 04/2023-present ics. ONERA and Institut Supérieur and turbulent boundary de layers, microfluidics, l'Aéronautique de l'Espace, 2023, Toulouse, particle sedimentation, France canopy flows, and insect aerodynamics KHANWALE, Dr. Makrand Ph.D. Mechanical En-Multiphase flows, 08/2021-present gineering and Applied electrochemical systems, Mathematics, 2021, Iowa numerical analysis, State University turbulence LAURENT, Dr. Charlelie Ph.D. Mechanical Engi-Turbulent combustion, 01/2022-present neering, 2021, National data-driven modeling Polytechnic Institute of deep learning, Toulouse, France rocket propulsion, and reduced-order modeling PASSIATORE, Dr. Donatella Ph.D. Mechanical Engi-High-speed, multi-10/2022-present neering, 2021, Politecnico component and di Bari, Italy and ENreacting flows, large SAM Paris, France -eddy and direct numerical simulations PATIL, Dr. Aakash Ph.D. Computational Deep learning, 05/2023-present Mathematics, 2023, predictive modeling, DL-assisted modeling MINES Paris Tech, France of turbulent flows TONICELLO, Dr. Niccolò Ph.D. Mechanical Engi-High-order methods, neering, 2021, Université compressible turbulence, 01/2023 - 03/2023de Rouen, France multi-phase flows, surrogate modeling, reduced-order models WANG, Dr. Jianyu Ph.D, Hydraulic Engi-Non-uniform wind flow, 11/2023-present neering, 2023, Tsinghua atmospheric boundary University, China layer, atmospheric turbulence, and numerical simulations

ZABALETA, Dr. Federico $10/2023$ -present	Ph.D, Civil and Environmental Engineering, 2023, University of California, Davis	Multiphase flows, ice accretion modeling, air entrainment
ZAHTILA, Dr. Tony $08/2023$ -present	Ph.D. Mechanical Engineering, The University of Melbourne, 2023, Australia	Uncertainty quantification, computational fluid dynamics, turbulent flows
Research Associates		
MAEDA, Dr. Kazuki 08/2019–05/2023	Ph.D. Mechanical Engineering, 2018, California Institute of Technology	Physics, modeling, and simulation of high-speed, multi-component flows, and their engineering applications
MIRJALILI, Dr. Shahab $07/2019{\rm -present}$	Ph.D. Mechanical Engineering, 2019, Stanford University	Numerical methods and physics of multiphase flows high-performance computing, and machine learning
Visiting Scholars		
BASTIAANS, Dr. Robert $05/2023-08/2023$	Associate Professor, Department of Mechanical Engineering, Eindhoven University of Technology, Netherlands	Turbulent combustion, fluid dynamics, modeling, simulation and analysis
PANESI, Dr. Marco 01/2023–12/2023	Professor, Department of Aerospace Engineering, University of Illinois at Urbana-Champaign	Uncertainty quantification and machine learning, non- equilibrium, weakly ionized plasmas, non-equilibrium chemistry and radiation, hypersonics
TONICELLO, Dr. Niecolò $07/2023$ – $08/2023$	Assistant Professor, Department of Mathematics, Scuola Internazionale di Studi Superiori Avanzati (SISSA), Italy	High-order methods, compressible turbulence, multi-phase flows, surrogate modeling, reduced-order models

WU, Dr. Wen Assistant Professor, De-Roughness and flow 06/2023 - 08/2023partment of Mechanical separation Engineering, University of Mississippi Senior Research Fellows Adjunct Professor, Insti-BOSE, Dr. Sanjeeb Wall models for LES, tute for Computational numerical methods, and Mathematical Engiand high-performance neering, and Cadence Decomputing sign Systems DI RENZO, Dr. Mario Researcher, Università Hypersonics, electrified del Salento, Italy, and combustion, interaction CTRof turbulence with shock waves and chemistry, and numerical methods for compressible reacting flows