Come join us! The Aerospace Engineering Department at San Diego State University is interested in attracting talented students to our M.S. and Ph.D. degree programs offering specializations in aerodynamics, astrodynamics/guidance and control, and structural mechanics. Our graduate programs through rigorous and innovative curriculum and high impact research experiences educate students to become the next generation of leaders in Aerospace Engineering.

Our faculty expertise includes aerodynamics, fluid mechanics, propulsion, structural mechanics, aeroelasticity, nondestructive evaluation, aerospace design, guidance and control, astrodynamics, mission analysis and systems Design. The proximity and the strong ties of our faculty to the local aerospace industry provide opportunities for students to interact with industry and to work on real life problems. Our Master's degree course offerings and scheduling is also optimal for working engineers.

Program highlights:
• Well-recognized graduate program
• Distinguished faculty
• State-of-the-art research facilities
• Close connections with aerospace industry and national labs

Funding Agencies: NASA, AFOSR, ONR, US Army, NSF, DoE, FAA and a variety of industrial sponsors.

About San Diego: San Diego, located on the Pacific Coast of Southern California, enjoys year-round good weather. The diverse population offers multicultural experiences and a cosmopolitan living experience. San Diego is also home to many engineering and high-tech companies, including Northrop Grumman, General Atomics, Lockheed Martin, Solar Turbines, Boeing, ViaSat, United Technologies Aerospace Systems, US Naval Air Systems Command and over 200 small companies that contribute to unmanned systems and space systems.
Joseph Katz
Professor
Expertise: Fluid Mechanics, Aerodynamics
Email: jkatz@mail.sdsu.edu

https://aerospace.sdsu.edu/faculty/josephKatz

Ping Lu
Professor and Chair
Guidance and Control, Aerospace Autonomy
Email: plu@sdsu.edu

Prof. Lu’s research group of undergraduate, MS and PhD students in the Computational Guidance and Control

Satchi Venkataraman
Professor
Aerospace Structures, Composite Materials, and Design Optimization
Email: satchi@mail.sdsu.edu

http://engineering.sdsu.edu/~satchi/

Gustaaaf (Guus) Jacobs
Professor
Computational Fluid Dynamics CFD
gjacob@mail.sdsu.edu

https://newscenter.sdsu.edu/citer/

Unsteady Simulation of Flow in Propulsion Systems

Ahmad Bani-Younes
Associate Professor
Astrodynamics, Spacecraft Guidance Navigation and Control
abaniyounes@sdsu.edu

Lab webpage: https://space.sdsu.edu

Spacecraft Platform for Astronautics and Celestial Emulation

Luciano Demasi
Professor
Expertise: Aerospace Structures, Aeroelasticity
Email: ldemasi@mail.sdsu.edu

https://aerospace.sdsu.edu/faculty/lucianoDemasi
**Xiaofeng Liu**  
Associate Professor  
Experimental Fluid Dynamics, Aerodynamics and Multiphase Flow  
Email: Xiaofeng.Liu@sdsu.edu  
Lab webpage: http://liu.sdsu.edu

**Jun Chen**  
Assistant Professor  
Dynamics, Control, and Optimization for large-scale networked dynamical systems  
Email: jun.chen@sdsu.edu  
Lab webpage: https://junchen.sdsu.edu/

**Margherita Capriotti**  
Assistant Professor  
Non-destructive evaluation techniques, ultrasonic guided wave (UGW) propagation and scattering, composite structures and biomedical applications  
Email: mcapriotti@sdsu.edu

**Pavel Popov**  
Assistant Professor  
CFD, Propulsion, Plasma-combustion interactions  
Email: ppopov@sdsu.edu  
Lab webpage: https://aerospace.sdsu.edu/faculty/pavelpopov

**Qi Wang**  
Assistant Professor  
Aerodynamics, Fluid Mechanics  
Email: qwang4@sdsu.edu  
Lab webpage: qiwang.sdsu.edu

**Pablo Machuca**  
Visiting Assistant Professor  
Expertise: Astrodynamics, Autonomous GNC, Mission Analysis, Systems Design  
Email: pmachuca@sdsu.edu  
aerospace.sdsu.edu/people/pablo-machuca

**Laboratory of Advanced Experimental Fluid Dynamics**

**Autonomy & Control for Intelligent Air Transportation**

**Non-Destructive Evaluation (NDE) database and analysis for damage characterization**

**Visualization of a turbulent hydrogen jet in air crossflow**

**Big-data strategy for fast pollution tracking**

**Trajectory Design, Autonomous Optical Navigation, CubeSat Systems Design, and GNC**
Welcome to SDSU