

Praharsh Tiwari

Doctoral Student

Mechanical Engineering

Florida Center for Advanced Aero-Propulsion, FAMU-FSU College of Engineering, FAMU-FSU

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Education

Degree	School/Institute	Year
Ph.D. Mechanical Engineering	Florida Center for Advanced Aero-Propulsion, FAMU-FSU College of Engineering, Florida A&M - Florida State University, Tallahassee, FL, United States	2025 - Present
B.Tech. Mechanical Engineering	Shiv Nadar Institution of Eminence (deemed to be University), Delhi-NCR, India	2021 - 2025

Research Experience

- **Graduate Research Assistant** *Aug 2025 - Present*
Florida Center for Advanced Aero-Propulsion, FAMU-FSU College of Engineering, FAMU-FSU
- **Behaviour of a partially shrouded compressible jet with modified ramp surface geometry** *Jan 2025 - May 2025*
Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur
 - Experimental studies on the behaviour of a partially shrouded compressible jet in a ramp nozzle with modified nozzle ramp surface geometry.
- **SURGE summer research intern at the Indian Institute of Technology Kanpur** *May 2024 - July 2024*
Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur
 - I designed a test nozzle for experiments to study the break-up and atomisation of droplets (secondary atomisation) when injected into a compressible jet.
- **Summer research internship at the Indian Institute of Technology Kanpur** *May 2023 - July 2023*
Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur
 - I undertook an internship under Dr. Mohd. Ibrahim Sugarno at the Indian Institute of Technology Kanpur for eight weeks in the Summer of 2023. As part of my internship, I experimentally studied the flow features of a plug nozzle using the Surface Oil Flow Visualization (SOFV) Technique and analysed flow-field images using digital image processing techniques.
- **Motion of bodies through discrete and continuous interfaces** *May 2022 - Jan 2025*
Advised by Dr. Visakh Vaikuntanathan, Assistant Professor, Department of Mechanical Engineering, SNIoE
 - Performed numerical and experimental studies to study the settling motion of isolated and twin-particle systems through discrete and continuous interfaces.

Publications

Conference Proceedings

- Mario A. Carvajal, **Praharsh Tiwari**, Robert Smith, Burak A. Tuna, Rajan Kumar, and William S. Oates. Aerodynamic physical reservoir computer training using oscillating vortex generators. In AIAA SciTech Forum 2026. AIAA, 2026.