

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**

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

Aug 2025 - Present
- Behaviour of a partially shrouded compressible jet with modified ramp surface geometry**

Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur

Jan 2025 - May 2025

– 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**

Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur

May 2024 - July 2024

– 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**

Advised by Dr. Mohd. Ibrahim Sugarno, Associate Professor, Department of Aerospace Engineering, IIT Kanpur

May 2023 - July 2023

– 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**

Advised by Dr. Visakh Vaikuntanathan, Assistant Professor, Department of Mechanical Engineering, SNIoE

May 2022 - Jan 2025

– 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.