

Jordan M. Lee

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SUMMARY

Aerospace Engineering graduate student with a strong background in propulsion systems, high-speed aerodynamics, and computational modeling. Experienced in collaborative research, experimental setups, and advanced simulation software.

EDUCATION

North Carolina State University

Master of Science in Aerospace Engineering – Expected May 2025

Relevant Coursework: Rocket Propulsion, Computational Aerodynamics, Aerospace Vehicle Stability & Control

University of Colorado Boulder

Bachelor of Science in Aerospace Engineering – May 2023

Capstone: Electric propulsion system design for nanosatellites

RESEARCH EXPERIENCE

Graduate Research Assistant, Propulsion and Energy Systems Lab, NCSU, 2023–*Present*

- Investigated performance metrics for air-breathing engines under varying atmospheric conditions.
- Conducted hybrid simulations of ion propulsion in vacuum chambers.

PUBLICATIONS

Lee, J.M., Chen, T., & Hart, A. (2025). Optimization of Hybrid Rocket Fuel Grains for Small Launch Vehicles. **Journal of Propulsion and Power**.

Nguyen, P., **Lee, J.M.**, & Zhang, H. (2024). CFD Study of Intake Shock Dynamics in Scramjet Engines. **Aerospace Science and Technology**.

Andrews, R., Kumar, A., **Lee, J.M.**, & Patel, V. (2023). Acoustic Signatures in Supersonic Flight. **AIAA Journal of Aircraft**.

Chang, K., Hart, A., **Lee, J.M.**, & Torres, D. (2023). Fuel Spray Analysis in Rotating Detonation Engines. **Combustion and Flame**.

Evans, L., Martin, S., Delgado, R., & **Lee, J.M.** (2022). Vortex-Induced Vibration Control in Aerospace Structures. **International Journal of Structural Stability and Dynamics**.

Lee, J.M., Tang, W., Dorsey, B., & Zhou, M. (2022). Experimental Study on Microthruster Arrays for CubeSat Applications. **Acta Astronautica**.

TECHNICAL SKILLS

- MATLAB, OpenFOAM, Python, ANSYS Fluent, Simulink, Creo, Fortran, LaTeX

PRESENTATIONS

- “Shock-Boundary Interactions in Scramjet Intakes,” AIAA SciTech Forum, January 2024.
- “Fuel Grain Optimization Techniques in Hybrid Rockets,” ASME IMECE, November 2023.

AWARDS & HONORS

- NCSU Aerospace Graduate Excellence Award, 2024
- Top 10 Paper – AIAA Region II Student Conference, 2023

PROFESSIONAL MEMBERSHIPS

- AIAA – American Institute of Aeronautics and Astronautics
- APS – American Physical Society