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- Ph.D. Student in Aeronautics and Astronautics, admitted Autumn 2020
- Masters Student in Aeronautics and Astronautics, admitted Autumn 2019

Publications

PUBLICATIONS

- **A staggered training framework for mechanics-informed neural networks in tractable multiscale homogenization with application to woven fabrics** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
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2026; 452
- **Permeability Modeling of the Mars 2020 Parachute Broadcloth Material** *AIAA JOURNAL*
Ghasimi, S., Rabinovitch, J., Chacon, L., Poovathingal, S. J., Phillippe, C. A., Foster, C., Roca, L., Panerai, F., As'ad, F., Farhat, C., Lobbia, M., Ataei, N.
2025
- **Sensitivity Analysis and Validation of a Computational Framework for Supersonic Parachute Inflation Dynamics** *AIAA JOURNAL*
As'ad, F., Avery, P., Farhat, C., Rabinovitch, J., Lobbia, M., Ataei, N.
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- **Permeability Modeling of Mars Parachute Broadcloth Materials**
Ghasimi, S., Rabinovitch, J., Chacon, L., Poovathinga, S. J., Phillippe, C. A., Foster, C., Roca, L., Panerai, F., As'ad, F., Avery, P., Farhat, C., Lobbia, M., Ataei, et al
AMER INST AERONAUTICS & ASTRONAUTICS.2024
- **Sensitivity Analysis and Validation of a Computational Framework for Supersonic Parachute Inflation Dynamics**
As'ad, F., Avery, P., Farhat, C., Rabinovitch, J., Lobbia, M., Ataei, N., AIAA
AMER INST AERONAUTICS & ASTRONAUTICS.2024
- **A mechanics-informed deep learning framework for data-driven nonlinear viscoelasticity** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
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- **Reprint of: Robust and globally efficient reduction of parametric, highly nonlinear computational models and real time online performance** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
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- **Robust and globally efficient reduction of parametric, highly nonlinear computational models and real time online performance** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Tezaur, R., As'ad, F., Farhat, C.
2022; 399
- **A mechanics-informed artificial neural network approach in data-driven constitutive modeling** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING*
As'ad, F., Avery, P., Farhat, C.
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