

Alexander Vereen

Curriculum Vitae

University of South Carolina

Columbia, South Carolina

✉ avereen@email.sc.edu

🌐 <https://avereen.github.io/>

🐙 github.com/Avereen

🌐 <https://www.linkedin.com/in/alexander-vereen-494129181/>

Academic Experience

2020 - present **Research Assistant**, Department of Mechanical Engineering, Mechanical Engineering, University of South Carolina, Columbia, South Carolina, 29208, USA

Education

2020 - present **Ph.D.**, Mechanical Engineering, University of South Carolina, Columbia, South Carolina, 29208, USA

2015 - 2019 **B.S.**, Mechanical Engineering, Mechanical Engineering, University of South Carolina, Columbia, South Carolina, 29208, USA

Conference Proceedings

- [6] Alexander B. Vereen, Emmanuel A. Ogunniyi, Austin R.J. Downey, Jacob Dodson, Adriane G. Moura, and Jason D. Bakos. Online implementation of the local eigenvalue modification procedure for high-rate model assimilation. In *IMAC 41*, feb 2023
- [5] Emmanuel Ogunniyi, Alexander Vereen, Austin R.J. Downey, Simon Laflamme, Jian Li, Caroline R Bennett, William Collins, Hongki Jo, Alexander Henderson, and Paul Ziehl. Investigation of electrically isolated capacitive sensing skins on concrete to reduce structure/sensor capacitive coupling. *Measurement Science and Technology*, feb 2023. doi:10.1088/1361-6501/acbb97
- [4] Zhyimir Thompson, Alex Vereen, Austin Downey, Jason D. Bakos, Jacob Dodson, and Adriane G. Moura. Online back-propagation of recurrent neural network for forecasting nonstationary structural responses. In *IMAC 41*, feb 2023
- [3] Alexander B. Vereen, Austin Downey, Subramani Sockalingam, and Simon Laflamme. Large area capacitive sensors for impact damage measurement. In Daniele Zonta, Zhongqing Su, and Branko Glisic, editors, *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2022*. SPIE, apr 2022. doi:10.1117/12.2629492
- [2] Alexander Vereen, Austin Downey, Subramani Sockalingham, Paul Ziehl, Simon LaFlamme, Jian Li, and Hongki Jo. Monitoring impact damage in composites with large area sensing skins. In Daniele Zonta, Haiying Huang, and Zhongqing Su, editors, *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2021*, page 115911Q. SPIE, mar 2021. doi:10.1117/12.2582572
- [1] Austin Downey, Cyrus Vakili Rad, Alexander Vereen, Fariha Mir, Subramani Sockalingam, and Sourav Banerjee. Sensing skin for in-service monitoring of woven composite laminates subjected to impact damage. In *46th Annual Review of Progress*

in Quantitative Nondestructive Evaluation, page 6839. CNDE/ASME, 2019. URL:
<https://www.iastatedigitalpress.com/qnde/article/id/8568/>