

Stanford



Michael LoCascio

Ph.D. Student in Civil and Environmental Engineering, admitted Winter 2022

Bio

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Michael's work focuses on wind energy at the intersection of computational fluid dynamics, controls, and optimization. He is interested in wake modeling, wind farm layout optimization, and large eddy simulations of wind farm flows. He is currently working on a low-cost model for the annual energy production of wind farms.

Michael is also a graduate researcher at the National Wind Technology Center, a research facility of the National Renewable Energy Laboratory. He received his Master of Science in Mechanical Engineering from Stanford in 2023 and his Bachelor of Science in Mechanical Engineering from UCLA in 2020.

EDUCATION AND CERTIFICATIONS

- MS, Stanford University , Mechanical Engineering (2023)
- BS, University of California, Los Angeles , Mechanical Engineering (2020)

Publications

PUBLICATIONS

- **FLOW Estimation and Rose Superposition (FLOWERS): an integral approach to engineering wake models** *WIND ENERGY SCIENCE*
LoCascio, M. J., Bay, C. J., Bastankhah, M., Barter, G. E., Fleming, P. A., Martinez-Tossas, L. A.
2022; 7 (3): 1137-1151