STANFORD ADVISORS

- Sanjiva Lele, Doctoral Dissertation Advisor (AC)

LINKS


Publications

PUBLICATIONS

- **Wind Farm Modeling with Interpretable Physics-Informed Machine Learning** *ENERGIES*
  
  Howland, M. F., Dabiri, J. O.
  
  2019; 12 (14)

- **Wind farm power optimization through wake steering**. *Proceedings of the National Academy of Sciences of the United States of America*
  
  Howland, M. F., Lele, S. K., Dabiri, J. O.
  
  2019

- **Seeing the Wind: Visual Wind Speed Prediction with a Coupled Convolutional and Recurrent Neural Network**
  
  
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS). 2019

- **Dependence of small-scale energetics on large scales in turbulent flows** *JOURNAL OF FLUID MECHANICS*
  
  Howland, M. F., Yang, X. A.
  
  2018; 852: 641–62

- **Implication of Taylor’s hypothesis on measuring flow modulation** *JOURNAL OF FLUID MECHANICS*
  
  Yang, X. A., Howland, M. F.
  
  2018; 836: 222–37

- **Influence of the horizontal component of Earth’s rotation on wind turbine wakes**
  
  Howland, M. F., Ghate, A. S., Lele, S. K., IOP
  
  IOP PUBLISHING LTD. 2018

- **Measurement of unsteady loading and power output variability in a micro wind farm model in a wind tunnel** *EXPERIMENTS IN FLUIDS*
  
  Bossuyt, J., Howland, M. F., Meneveau, C., Meyers, J.
  
  2017; 58 (1)

- **Wake structure in actuator disk models of wind turbines in yaw under uniform inflow conditions** *JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY*
  