Stanford

Shilpa Vijay

Postdoctoral Scholar, Mechanical Engineering

Curriculum Vitae available Online

Bio

BIO

Shilpa received her PhD in Mechanical Engineering from the University of Southern California (USC), Los Angeles, and was advised by Dr. Mitul Luhar. For her dissertation, she worked on developing structured porous surfaces for passive flow control, with applications to drag reduction and heat transfer. Her research interests lie in turbulent boundary layer flow, thermal/particle mixing and transport, and applications of experimental techniques to a variety of problems.

HONORS AND AWARDS

- Viterbi Graduate Fellowship, University of Southern California (August 2016)
- S. N. Bose Scholar, Indo-US Science and Technology Forum (May 2015)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Southern California (2023)
- Master of Science, University of Southern California (2018)
- Bachelor of Technology, College of Engineering Pune (2016)

STANFORD ADVISORS

- Beverley McKeon, Postdoctoral Faculty Sponsor

LINKS

- Personal Webpage: https://shilpavijay-lab.github.io/

Publications

PUBLICATIONS

- **Pressure drop measurements over anisotropic porous substrates in channel flow** *EXPERIMENTS IN FLUIDS*
  Vijay, S., Luhar, M.
  2024; 65 (9)
- **Resolvent-based design and experimental testing of porous materials for passive turbulence control** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
  Chavarin, A., Efstathiou, C., Vijay, S., Luhar, M.
  2020; 86