Stanford

Sujal Dave

Postdoctoral Scholar, Cardiology

Curriculum Vitae available Online

Bio

BIO

Sujal Dave, PhD, is a Postdoctoral Scholar in the Cardiovascular Biomechanics Computation Lab at Stanford University.

He recently completed his Ph.D. in Mechanical Engineering at the University of Calgary under the supervision of Dr. Artem Korobenko, where he developed consistent reduced order modeling frameworks for turbulent flows using variational multiscale methods and stabilized finite elements. His doctoral research advanced large-scale wind turbine wake simulations with applications to renewable energy and environmental flows.

STANFORD ADVISORS

- Alison Marsden, Postdoctoral Faculty Sponsor

LINKS

- Personal Website: https://sujaldave.github.io/
- Google Scholar: https://scholar.google.com/citations?user=3R951S8AAAAJ&hl=en
- LinkedIn: https://www.linkedin.com/in/sujal-d-dave/

Research & Scholarship

LAB AFFILIATIONS

- Alison Marsden, Cardiovascular Biomechanics Computation Lab (10/15/2025)

Publications

PUBLICATIONS

- **Consistent reduced order modeling for wind turbine wakes using variational multiscale method and actuator line model** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
  Dave, S., Korobenko, A.
  2025; 446

- **Predicting smooth body flow separation with finite-element-based variational multiscale formulation** *COMPUTATIONAL MECHANICS*
  Dave, S., Korobenko, A.
  2025

- **Summary of the Smooth Body Separation Test Case at the 2022 High Fidelity CFD Verification Workshop**
  Larsson, J., Bermejo-Moreno, I., Garmann, D., Rizzetta, D., Baurle, R., Mukha, T., Toosi, S., Schlatter, P., Brehm, C., Ganju, S., Kahraman, A., van Noordt, W., Wang, et al
  AMER INST AERONAUTICS & ASTRONAUTICS.2023

- **An effective PBPK model predicting dissolved drug transfer from a representative nasal cavity to the blood stream** *JOURNAL OF AEROSOL SCIENCE*
  Dave, S., Kleinstreuer, C., Chari, S.
  2022; 160