

# Stanford

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## Suhas Jain Suresh

Postdoctoral Scholar, Mechanical Engineering

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### Bio

#### STANFORD ADVISORS

- Parviz Moin, Postdoctoral Faculty Sponsor

#### LINKS

- Personal Site: <http://web.stanford.edu/~sjsuresh/>

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### Research & Scholarship

#### LAB AFFILIATIONS

- Parviz Moin (4/30/2017)
- Ali Mani (9/30/2016)

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### Publications

#### PUBLICATIONS

- **A conservative diffuse-interface method for compressible two-phase flows** *Journal of Computational Physics*  
Jain, S. S., Mani, A., Moin, P.  
2020; 418
- **Droplets in homogeneous shear turbulence** *JOURNAL OF FLUID MECHANICS*  
Rosti, M. E., Ge, Z., Jain, S. S., Dodd, M. S., Brandt, L.  
2019; 876: 962–84
- **A conservative and non-dissipative Eulerian formulation for the simulation of soft solids in fluids** *Journal of Computational Physics*  
Jain, S. S., Kamrin, K., Mani, A.  
2019; 117
- **Secondary breakup of drops at moderate Weber numbers: Effect of Density ratio and Reynolds number** *International Journal of Multiphase Flow*  
Jain, S. S., Tyagi, N., Prakash, R. S., Ravikrishna, R. V., Tomar, G.  
2019; 117 (August 2019): 25-41
- **DETAILED NUMERICAL SIMULATIONS OF ATOMIZATION OF A LIQUID JET IN A SWIRLING GAS CROSSFLOW** *ATOMIZATION AND SPRAYS*  
Prakash, S. R., Jain, S. S., Lovett, J. A., Raghunandan, B. N., Ravikrishna, R., Tomar, G.  
2019; 29 (7): 577–603
- **Birth of microbubbles in turbulent breaking waves** *Physical Review Fluids*  
Chan, W. R., Mirjalili, S., Jain, S. S., Urzay, J., Mani, A., Moin, P.  
2019; 4

- **Flow-induced breakup of drops and bubbles** *arXiv:[physics.flu-dyn]*  
Jain, S. S.  
2017

## PRESENTATIONS

- Effect of Density Ratio on the Secondary Breakup of Spherical Drops in a Gas Flow - 18th Annual Conference of Liquid Atomization & Spray Systems - Asia (11/21/2016 - 11/24/2016)
- Computational study of liquid jet breakup in swirling cross flow - 18th Annual Conference of Liquid Atomization & Spray Systems - Asia (12/21/2016 - 12/24/2016)
- Improved deferred correction method for the implementation of higher order schemes - 5th International Conference and 41st National Conference on Fluid Mechanics and Fluid Power (12/15/2014 - 12/19/2014)