S Ganga Prasath

Date of Birth: 6, January 1991
International Centre for Theoretical Sciences,
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Education

2019-• **Post-doctoral Fellow, School of Engineering and Applied Sciences**,
Harvard University, Boston.

2019 **Post-doctoral Fellow, Physics**,
International Centre for Theoretical Sciences, Bangalore.

2013-2019 **Research Scholar, Physics**,
International Centre for Theoretical Sciences, Bangalore.

2015, 17 **Visiting Research Scholar**,
Dept. of Physics, University of Massachusetts, Amherst.

2012-13 **M.S. in Fluid Mechanics**,
École Polytechnique, Palaiseau.
AVERAGE: 16.03/20

2008-12 **B. Tech in Mechanical Engineering**,
Indian Institute of Information Technology, Chennai.
CGPA: 9.02/10

2007-08 **AISSCE (All India Senior School Certificate Examination)**
DAV-BHEL School, Ranipet.

Research interests

Mechanics of soft elastic materials • Geometry driven instabilities

Dynamics of particle laden flows • Sedimentation of complex structures

Publications

2019 Vishal Vasan, **Ganga Prasath, S.**, and Rama Govindarajan.
Boundary-bulk extension of fractional derivatives with application to Maxey-Riley equations. *(under preparation)*.

2019 **Ganga Prasath, S.**, Vishal Vasan, and Rama Govindarajan.
Accurate solution method for the Maxey-Riley equation, and the effects of Basset history. *Journal of Fluid Mechanics, 868, 428-460* (selected for **Focus on Fluids**).[arXiv]

2019 **Ganga Prasath, S.**, Joel Marthelot, Rama Govindarajan, and Narayanan Menon.
Wetting properties of a droplet in contact with a highly-bendable elastic filament. *(to be*

submitted soon).

2019 Fabian Brau, **Ganga Prasath, S.**, and Benny Davidovich.
Morphologies of bendable solids: Insights from a two-dimensional, inextensible model.
(to be submitted).

2016 **Ganga Prasath, S.**, Joel Marthelot, Rama Govindarajan, and Narayanan Menon.
Relaxation of a highly deformed elastic filament at a fluid interface.
Physical Review Fluids, 1, 033903. [arXiv]

2014 **Ganga Prasath, S.**, Stephane Fauve, and Marc Brachet.
Dynamo action by turbulence in absolute equilibrium.
Europhysics Letters, 106(2), 29002 (pdf).

2014 **Ganga Prasath, S.**, Sudharsan, M., Vinodh Kumar, V., Diwakar, S. V., Sundararajan, T., and Tiwari, S.
Effects of aspect ratio and orientation on the wake characteristics of low Reynolds number flow over a triangular prism.
Journal of Fluids and Structures, 46, 59-76 (pdf).

Summer schools

2016 Institut d'études scientifiques de Cargèse school on "*Physics and Mechanics of Soft Complex Materials*".

2015 Boulder school for condensed matter and materials physics on "*Soft Matter In and Out of Equilibrium*".

2015 University of Massachusetts Amherst school on "*Soft solids and complex fluids*".

Conference, invited talks

2018 APS Division of Fluid Dynamics meeting on "*The Maxey-Riley equation as a boundary condition to the 1-D heat equation*", Atlanta, GA.

2018 APS Division of Fluid Dynamics meeting on "*Coiling of an elastic filament on a spherical bubble*", Atlanta, GA.

2018 Poster on "*Elastic and hydrodynamic instabilities*" in Global Young Scientists Summit (GYSS) at Nanyang Technological University, Singapore.

2016 CompFlu (Complex Fluids) on "*Relaxation of a highly deformed elastic filament at a fluid interface*" at Indian Institute of Technology, Hyderabad.

2015 APS March meeting on "*Large-deformation dynamics of an elastic filament at a fluid interface*" at San Antonio, Texas.

Awards and achievements

2018 Received *Infosys Excellence Grant* to attend APS Division of Fluid Dynamics meet in Atlanta, Georgia.

2015,16 Secured *APS-IUSSTF* travel grant for exchange program at UMass Amherst and *ICAM*

travel grant for attending *PHASME* school in Cargese, Corsica.

2015 Selected to attend month long *Boulder school for condensed matter and materials physics* at University of Colorado, Boulder.

2012 Recipient of *Charpak Scholarship of Excellence* by Institut Français/Embassy of France in India.

2012 Received *Best thesis award* for B.Tech report titled "*Control of effects of vortex shedding using active and passive mechanisms*".

References

Rama Govindarajan
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University of Massachusetts,
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