S Ganga Prasath

Date of Birth: 6, January 1991
International Centre for Theoretical Sciences,
Survey No. 151, Shivakote,
Hesaraghatta Hobli, Bengaluru 560 089. India.

sgangaprasath.github.io
(+91)4172-241917
(+91)9894-419843
ganga.prasath@icts.res.in

Education

2013-• **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.

2008-12 **B. Tech in Mechanical Engineering**,
Indian Institute of Information Technology, Chennai.

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

Research interests

Mechanics of soft elastic materials • Geometry driven instabilities

Instabilities of particle laden flows • Sedimentation of complex structures

Publications

2018 Vishal Vasan, **Ganga Prasath, S.**, and Rama Govindarajan.
Boundary-bulk extension of fractional derivatives with application to Maxey-Riley equations. *SIAM Journal of Applied Mathematics. (under preparation)*.

2018 **Ganga Prasath, S.**, Rama Govindarajan, and Vishal Vasan.
Maxey-Riley equation as modified Robin condition to heat equation: Solution using Unified Transform Method. *Journal of Fluid Mechanics. (to be submitted)*.

2018 **Ganga Prasath, S.**, Joel Marthelot, Rama Govindarajan, and Narayanan Menon.
Wetting properties of a droplet in contact with a highly-bendable elastic filament. *Soft matter. (to be submitted)*.

2018 Fabian Brau, **Ganga Prasath, S.**, and Benny Davidovich.
Morphologies of bendable solids: Insights from a two-dimensional, inextensible model. *Soft matter. (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 Poster on "*Elastic and hydrodynamic instabilities*" in Global Young Scientists Summit (GYSS 2018) 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 2015 on "*Large-deformation dynamics of an elastic filament at a fluid interface* at San Antonio, Texas.

Awards and achievements

2016 Secured ICAM travel grant for attending PHASME school in Cargese, Corsica.

2015 Secured *APS-IUSSTF* travel grant for exchange program at University of Massachusetts, Amherst.

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
ICTS-TIFR Bangalore,
Hesaraghatta Hobli,
Bengaluru - 560 089.
✉ rama@icts.res.in

Narayanan Menon
Department of Physics,
University of Massachusetts,
Amherst, MA 01003
✉ menon@physics.umass.edu

Vishal Vasan
ICTS-TIFR Bangalore,
Hesaraghatta Hobli,
Bengaluru - 560 089.
✉ vishal@icts.res.in

Marc-Etienne Brachet
CNRS, Laboratoire de Physique Statistique,
Ecole Normale Supérieure,
75231 Paris Cedex 05
✉ brachet@physique.ens.fr