




TIFR BEST THESIS AWARDS 2017-18

These are annual awards, given by the TIFR Alumni Association (TAA), for the Best Theses awarded by TIFR between April 2017 & March 2018
The names are selected by a committee chosen for each subject.


TAA-Geeta Udgaonkar Award for Physical Sciences

	Recipient	Thesis Title	Citation
 (Best Thesis Award)	Dr. Prakash Gaikwad	“Efficient Hydrodynamical Simulations of the Intergalactic Medium and Parameter Estimation”, (Guide : Prof. Tirthankar Roy Choudhury.)	For his work which makes important contributions to the research fields of intergalactic matter and ionizing ultraviolet background.
 (Honourable Mention)	Dr. S. Ravichandran	“The Interplay of Buoyancy, Particle Inertia, and Phase Change in Vortical Flows—Implications for Cloud-flows.” (Guide : Prof. Rama Govindarajan/ Prof. Roddam Narasimha)	For his work which makes significant contributions to the study of turbulent flows pertaining to atmospheric clouds.



TAA – Chemistry Award

	Recipient	Thesis Title	Citation
 <p>(Best Thesis Award)</p>	Dr. Bappaditya Chandra	<p>“Understanding Amyloid Aggregation in Terms of Distal Folding Contacts”,</p> <p>(Guide : Prof. Sudipta Maiti/ Prof. P. K. Madhu.)</p>	<p>For his contribution to understanding the significance of specific structural parameters, which play a role in governing A-beta aggregation and its membrane affinity.</p>



TAA – Sasken Award for Computer & Systems Sciences

	Recipient	Thesis Title	Citation
 <p>(Best Thesis Award)</p>	Dr. Deepesh Kumar Data	<p>“Communication Complexity and Characterization Results in Secure Computation”,</p> <p>(Guide : Prof. Vinod M. Prabhakaran)</p>	<p>For obtaining innovative results on communication complexity, and new insights into feasibility of secure computation.</p>

TAA-Harish Chandra Memorial Award for Mathematics

	Recipient	Thesis Title	Citation
 <p>(Best Thesis Award)</p>	Dr. K.V. Shuddhodan	“Self-maps of Varieties over Finite Fields”, (Guide : Prof. V. Srinivas)	For his work which introduces a new type of Zeta function adapted to a self map of a variety over a finite field that reduces to Weil's Zeta function when the self map is the identity.
 <p>(Best Thesis Award)</p>	Dr. Deep Ray	“Entropy-stable Finite Difference and Finite Volume Schemes for Compressible Flows”, (Guide : Praveen Chandrashekarappa/ Prof. Siddharth Mishra)	For his work which is an excellent contribution towards the implementation of robust numerical schemes for the solution of compressible flows governed by the Euler and Navier-Stokes equations.

TAA – B. M. Udgaonkar Award for Science Education

	Recipient	Thesis Title	Citation
 <p>(Best Thesis Award)</p>	Dr. Aswathy Raveendran	“Conceptualizing Critical Science Education through Socioscientific Issues.” (Guide : Prof. Sugra Chunawala)	For her scholarly trans-disciplinary research advocating a critical engagement with values and nature of science in science education.
 <p>(Honourable Mention)</p>	Dr. Arindam Bose	“Work, Knowledge and Identity: Implications for School Learning of Out-of-School Mathematical Knowledge.” (Guide : Prof. K. Subramaniam)	For an effective use of ethnographic approach to build upon the socio-cultural contexts of learners in school mathematics education.