




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



### TAA – Sasken Award for Computer & Systems Sciences

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

**TAA-Harish Chandra Memorial Award for Mathematics**

	Recipient	Thesis Title	Citation
 <p><b>(Best Thesis Award)</b></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><b>(Best Thesis Award)</b></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><b>(Best Thesis Award)</b></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><b>(Honourable Mention)</b></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.