Institute for Theory and Computation

http://www.cfa.harvard.edu/itc/

Over the past two decades, high performance computing has revolutionized astrophysics. On the theory side, simulations running in parallel on hundreds or thousands of processors have made it possible to understand the formation of large-scale structure in the Universe, the growth of supermassive black holes in the centers of galaxies, the formation of Earth-like planets around Sun-like stars, and the nature of the first stars and galaxies. On the observational side, computer-intensive analysis of data from surveys of distant galaxies, supernovae, and the cosmic microwave background radiation have made it possible to empirically constrain the major constituents of the Universe to unprecedented precision. Planned and ongoing research in all these areas require access to state-of-the-art computer hardware.

In anticipation of these developments, Harvard's Institute of Theory and Computation (ITC) was established at the Center for Astrophysics (CfA) a decade ago. The mission statement of the ITC is to combine conceptual theory with computer modeling to take advantage of the increased importance of computation in astrophysics and to train future generations of scientific and intellectual leaders in the field.

Since its inception, the ITC has flourished and is now widely regarded as the premier institution for theoretical and computational astrophysics in the world. The ITC currently supports the research efforts of more than 80 scientists, including permanent members, postdoctoral fellows, and graduate students.

In addition, the ITC hosts visits of over 200 scientists from around the world every year, greatly enhancing the visibility of Harvard in all disciplines of astrophysics. In 2012 alone, one third (10/30) of all the Einstein/Hubble/Sagan fellowships awarded by NASA worldwide were given to students and postdocs at the ITC.

The ITC is currently supported on a yearly basis by the Harvard College Observatory. We are seeking a permanent endowment of $20-40M with an opportunity to name the ITC after the donor who provides these funds. Contact Nina at 617.495.7962 or nzonnevyle@cfa.harvard.edu to see how you can help.

MAKE A DONATION TODAY!
Yes, I accept your invitation to support the Institute for Theory and Computation!

I wish to receive a limited-edition ITC coffee mug and enroll today as:

  _____ Individual   $100
  _____ Friend    $500
  _____ Sustainer $1,000
  _____ Supporter $5,000
  _____ Contributor $10,000
  _____ Sponsor    $25,000

Payment Information
My check for $______ is enclosed made payable to: Harvard University
Please charge $______ to my: Visa  MasterCard  American Express  Discover
Card No._______________________________________________________________Exp. Date____________Security Code________
Name on Card (please print)_____________________________________________________________________________________
Authorized Signature____________________________________________________________________________________________

For our records
Address_____________________________________________________________________________________________________________

Email Address:________________________________________________________Phone_____________________________________________

Three Convenient Ways to support the ITC
• By mailing this form with your payment
• Online at http://www.cfa.harvard.edu/itc
• By phone at 617-495-7962
• By fax at 617-495-7093

THANK YOU FOR YOUR SUPPORT

60 Garden Street
MS-51, P238
Cambridge, MA 02139