

The Harvard-Smithsonian Center for Astrophysics
Division of Theoretical Astrophysics
Institute for Theory and Computation
Current and Former TA / ITC Postdoctoral Fellows and Graduate Students

The Division of Theoretical Astrophysics and the Institute for Theory and Computation (ITC) at Harvard University is a center for excellence in theoretical astrophysics that integrates conceptual theory and computational modeling. The ITC was established in 2004 and is regarded by many as the most prominent theory center in astrophysics in the world. Former postdoctoral fellows and graduate students have gone on to premier and competitively sought-after positions in astrophysics after completing their research fellowships at the ITC.

POSTDOCTORAL FELLOWS

<u>NAME</u>	<u>YEAR of DEPARTURE</u>	<u>CURRENT TITLE</u>	<u>CURRENT INSTITUTION</u>	<u>RESEARCH INTERESTS</u>	<u>AWARDS</u>
Niayesh Afshordi	2007	Assistant Professor	University of Waterloo and Perimeter Institute	Analysis of various data sets including cosmic microwave background maps from WMAP, galaxy survey maps from the Sloan Digital Sky Survey and the 2 Micron All Sky Survey to constrain the matter content of the universe	Distinguished Research Fellow
Xuening Bai	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Planet formation, high-energy astrophysics, computational astrophysics	Hubble Fellow
Joseph Barranco	2007	Associate Professor	San Francisco State University	Computational astrophysical & geophysical fluid dynamics, formation of satrs & planets, vortex dynamics in protoplanetary disks, transits of giant planets around other sun-like stars, the Kuiper belt	APS Nicholas Metropolis award, NSF Fellow
Konstantin Batygin	2014	Assistant Professor	Caltech	Formation & evolution of the Solar System, dynamical evolution of exoplanets, physical processes inherent to planetary interiors and atmospheres	
Daniel Baumann	2009	Assistant Professor	University of Cambridge, UK	Cosmology, particle astrophysics, string theory, supersymmetry	
Simeon Bird	2014	Postdoctoral Fellow	Carnegie Mellon University	Theoretical and numerical cosmology	
Yuval Birnboim	2010	Senior Lecturer	The Hebrew University of Jerusalem	Radiation transfer in galactic halos and the role of turbulence in halos	The Goodmann Prize, Katzir award, Rothschild Fellow
Avery Broderick	2007	Assistant Professor	University of Waterloo and Perimeter Institute	The evolution of and phenomena associated with compact objects, strong field gravity, and star formation	

Volker Bromm	2004	Professor	University of Texas, Austin	Star & quasar formation, reionization of the universe, metal enrichment of the universe, physics of the first supernova explosions, high redshift supernovae and gamma-ray bursts, formation of supermassive black holes, formation of globular clusters	Robert J. Trumpler Award, Astronomical Society of the Pacific
James Bullock	2004	Professor	UC Irvine	Gas cooling and the formation of galaxies, galaxy mergers and interactions, dark matter & dwarf galaxies, galaxy stellar halos	
Blakesly Burkhart	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Star formation, turbulence in galaxy clusters, the physics of the diffuse ISM	Einstein Fellow
Sukanya Chakrabarti	2009	Assistant Professor	Rochester Institute of Technology	'Early Stages of Massive Protostars and Dusty Galaxies: Integrating the Theoretical and Observational Arenas'	University of California Presidential Fellow
Sayan Chakraborti	current	Harvard Society of Fellows	Harvard University, Harvard-Smithsonian Center for Astrophysics	Supernovae, LGRBs	Harvard Society of Fellows
Chi-Kwan Chan	2010	Postdoctoral Fellow	University of Arizona	Large eddy simulation (LES) algorithms to solve GR-MHD equations	Nordita Fellowship
David Clarke	1993	Professor	Saint Mary's University, Nova Scotia, Canada	Numerical MHD simulations of extragalactic radio sources and the interstellar medium, combined MHD and cosmic ray simulations, development of numerical algorithms	
Charlie Conroy	2012	Assistant Professor	Harvard University, Harvard-Smithsonian Center for Astrophysics	Stellar population synthesis, connecting galaxies to dark matter halos across time, the hierarchical growth of massive galaxies, voids in large-scale structure, satellite galaxy kinematics	CfA Fellow, Junior Fellow, Harvard Society of Fellows Sloan Fellowship
Thomas (T.J.) Cox	2009	Data Scientist	Voxer	'Star Formation and Feedback in Simulations of Interacting Galaxies'	
Matija Cuk	2011	Research Scientist	SETI Institute	Planetary dynamics, both in our and other solar systems. Presently exploring the dynamical history of the Earth-Moon system, with the particular focus on the Lunar Cataclysm	Daly Fellow Clay Fellow
Mark Dijkstra	2010	Associate Professor	University of Oslo, Norway	'Constraining Galaxy Formation and Reionization with Hydrogen Line Emission'	
Dimitrios Psaltis	2000	Professor	University of Arizona	Physics of neutron stars and black holes, properties of magnetohydrodynamic turbulence in accretion flows, testing of the Theory of general relativity in the strong-field regime	NSF CAREER award
Elena D'Onghia	2012	Assistant Professor	University of Wisconsin, Madison	Cosmology: nature of dark matter, large scale structure formation, galaxy groups, galaxy formation	Sloan Fellowship
Gregory Dobler	2009	Karp Fellow	Kavli Institute for Theoretical Physics at UCSB	Indirect detection of particle dark matter as well as its gravitational effects via gravitational lensing	
Cora Dvorkin	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Inflation, probes of reionization, dark matter, dark energy, large-scale structure, gravitational lensing, analysis of data	Hubble Fellow

Daniel Fabrycky	2010	Assistant Professor	University of Chicago	'Dynamical Detection And Migration Of Multiple-Body Planetary Systems'	Michelson Fellow Hubble Fellow
Alison Farmer	2010		Industry	Astrophysical mysteries and understanding physical processes through the application of physics , planetary electrodynamics	Junior Fellow, Harvard Society of Fellows
Eric Ford	2007	Professor	Penn State University	Planet formation, the dynamical evolution of planetary systems & extrasolar planets	Urey Prize, Warner Prize
Anna Frebel	2012	Assistant Professor	M.I.T.	Origin and evolution of the elements, early star and galaxy formation, stellar archeology, near-field cosmology	Clay Fellow
Yeshe Fenner	2006	Project Officer	Royal Women's Hospital, Murdoch Childrens Res. Inst., Melbourne Australia	Chemical evolution of the Milky Way, chemical evolution of Damped Lyman-alpha Absorbers, measuring radial abundance profiles in external spiral galaxies, globular cluster abundance anomalies, space-time variations in fine-structure constant	
Tassos Fragos	2013	Postdoctoral Fellow	Geneva Observatory, University of Geneva	Stellar and binary evolution, black hole and neutron star formation	
Charles Gammie	1998	Professor	University of Illinois	Magnetohydrodynamics, star formation, accretion physics, computer simulation of astrophysical plasmas, the formation of interstellar clouds and the collapse of dense clouds to form stars, disk accretion of black holes	NSF CAREER Award, PECASE award, Beckman Fellow, University Scholar
B. Scott Gaudi		Professor	Ohio State University	The search for extrasolar planets, study of the Kuiper Belt, topics in gravitational lensing	Hubble fellow, Menzel Fellow, Warner Prize
Shy Genel	2014	Postdoctoral Fellow	Columbia University	Formation of large structures, dark matter halos, galaxy formation	Hubble Fellow
Lijun Gou	2012	Professor	National Astronomical Observatories of China	Estimation of the spins of black holes in X-ray binaries by the method of X-ray continuum fitting	
Tommy Grav	2007	Senior Scientist	Planetary Science Institute	Study of minor planets in the solar system, particularly the objects heavily influenced by the giant planets	
Thomas Greif	2015	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Hydrodynamical simulations	
James Guillochon	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Tidal disruption	Einstein Fellow
Eric Hallman	2011	Research Scientist	Tech-X Corporation	'Predicting the Gamma-Ray Signature of Cosmic Ray Protons in Galaxy Lusters using Numerical Cosmological Simulations'	NSF Fellow
Anna Ijjas	2013	Postdoctoral Fellow	Princeton University	Theoretical Cosmology, General Relativity, Modified Gravity, Cosmic Inflation and Higgs Mechanism	
Patrik Jonsson	2012	Industry	Space-X	Interstellar dust and its effect on the appearance of galaxies by incorporating radiation-transfer simulations in hydrodynamic simulations of galaxy formation	UCSC Whitford prize, Keck Fellow

Yan-Fei Jiang	current	Postdoctoral Fellow	Smithsonian Astrophysical Observatory, Harvard-Smithsonian Center for Astrophysics	Numerical simulation	Einstein Fellow
Mario Juric	2011	Professor	University of Washington	Large astronomical surveys; Computational and data-intensive problems in astrophysics; Galactic structure, formation, and evolution; Data science methodology; Dynamics; Minor bodies of the Solar System	Edward Wilson Award, Hubble Fellow
Vassiliki Kalogera	2001	Professor	Northwestern University	Astrophysics of compact objects, formation and evolution in multiple stellar systems, physical properties of X-ray binaries, millisecond radio pulsars and double compact objects in galaxies, theoretical interpretation of current observations of their electromagnetic emission and anticipated gravitational radiation	Clay Fellow
Atish Kamble	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Supernovae	
Dusan Keres	2010	Assistant Professor	UC San Diego	Gas supply into galaxy formation, properties and survivability of the cold halo clouds that infall into galaxies	Hubble Fellow
Uri Keshet	2011	Senior Lecturer	Ben-Gurion University	Astrophysics and cosmology, the physics of collisionless shocks, large-scale structure, and black holes	Einstein Fellow
Woong-Tae Kim	2000	Professor	Seoul National University	Theoretical astronomy	
Christopher Kochanek		Professor	Ohio State University	Astrophysical applications of gravitational lenses, local galaxies & clusters	
Bence Kocsis	2013	Postdoctoral Fellow	IAS	Astrophysical dynamics, staistical mechanics,dense start clusters	Einstein Fellow
Kazunori Kohri	2006	Associate Professor	KEK (High Energy Accelerator Research Organization, Japan)	Cosmology, high energy astrophysics	
Kaitlin Kratter	2012	Assistant Professor	Univ. of Arizona	Accretion disks, astrophysical hydrodynamics: star and planet formation, computatonsl astrophysics	Connaught Fellow Hubble Fellow
Akshay Kulkarni	2011	Software Developer Engineer	Microsoft, Inc.	Magnetohydrodynamic computer simulations of black hole accretion flows, the physics of quasi-periodic oscillations in accreting neutron star and black holes	
Yuexing Li	2007	Assistant Professor	Penn State University	Star formation and black hole accretion to investigate the formation and evolution of galaxies and quasars in the early Universe	Keck Fellow
Adam Lidz	2009	Assistant Professor	University of Pennsylvania	Formation and evolution of large scale structure, i.e., in understanding how the Universe evolves from a smooth, simple initial state to its present day complexity with galaxies, galaxy clusters, and other structures	
Jifeng Liu	2011	Principal Astronomer	National Astronomical Observatories of China	The nature of ultraluminous X-ray sources; the physics and population of stellar mass black holes; the three dimensional structure of the Milky Way	Chandra Fellow, Ralph Baldwin Prize

Shude Mao	1995	Professor	Jodrell Bank Observatory, University of Manchester	Gravitational lensing and microlensing, galaxy formation	Friedrich Wilhelm Bessel Award
Raffaella Margutti	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	High-energy astrophysics, Gamma-ray bursts, engine driven supernovae, Type IA SNE, Super-luminous SNE, Tidal disruption events	
Cameron McBride	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Extragalactic astronomy	
Michael McCourt	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Modeling gravitational lensing by galaxy clusters	
Jonathan McKinney	2007	Assistant Professor	University of Maryland	High-energy astrophysics, non-relativistic and relativistic jets, black hole and neutron star accretion, general relativistic perturbation theory and numerical relativity, plasma physics, plasma and MHD instabilities, pulsar emission, non-thermal emission, gamma-ray bursts, galaxy/galaxy cluster evolution, AGN feedback, stellar & planetary internal magnetic fields and magnetospheres	
Mikhail Medvedev	2000	Professor	University of Kansas	High-energy astrophysics, gamma-ray bursts, relativistic shock waves, magnetic field generation, radiation physics, observational aspects	
Marc Metchnik	2013	Postdoctoral Fellow	University of Arizona		
Dan Milisavljevic	2014	Postdoctoral Fellow	Smithsonian Astrophysical Observatory, Harvard-Smithsonian Center for Astrophysics	Multi-wavelength investigations of astrophysical transients, Supernovae, Gamma-ray bursts	
Miguel Morales	2006	Associate Professor	University of Washington	Experimental astrophysics and cosmology developing observational techniques and instrumentation for emerging cosmology observations, including: new radio cosmology signatures, construction of MWA, GASE & Radio Transient Surveys	
Banibrata Mukhopadhyay	2006	Associate Professor	Indian Institute of Science	Theoretical astrophysics including physics of compact objects, particle astrophysics, cosmology and gravity	
Ruth Murray-Clay	2010	Assistant Professor	UC Santa Barbara	Theoretical problems related to the formation and evolution of planetary systems, including the solar system, with particular interest in planetary dynamics, the Kuiper belt, planet formation, the atmospheres of hot Jupiters and other close-in planets, and disks around young stars	
Jill Naiman	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	"Understanding How Stars Form in the Building Blocks of Galaxies - Gas Dynamics in Dwarf Galaxies and Star Clusters"	NSF Fellow
Smadar Naoz	2014	Assistant Professor	UCLA	Study of the formation and properties of the first generation of galaxies, dynamical processes in extrasolar systems	ITC Fellow Einstein Fellow

Desika Narayanan	2010	Assistant Professor	Haverford College	Star forming interstellar media in starburst galaxies, ULIRGs, and active galaxies via large-scale numerical modeling; the molecular component of protoplanetary disks.	CfA Fellow, Bok Fellow
Hiroshi Oda	2010		Chiba University	Steady model of magnetically supported, black hole accretion disks, MHD simulation of optically thin disks, radiation-MHD simulation, spectral analysis of galactic black hole candidates, neutron stars, AGNs, time variability of GBHCs, NSs	
Stella Offner	2012	Assistant Professor	UMass Amherst	Understanding how stars form, performing gravito-radiation-hydrodynamics simulations of the turbulent natal environment of stars, connecting theory and observation using synthetic observations	NSF Fellow Hubble Fellow
Eve Ostriker	1996	Professor	Princeton University	Formation of stars & planets, dynamics and thermodynamics of the interstellar medium, structure and evolution of spiral galaxies, physics of accretion/outflow systems, astrophysical turbulence, numerical methods for hydrodynamics	Zonta International Amelia Earhart Fellow, John Simon Guggenheim Fellow
Liubin Pan	current	Postdoctoral Fellow	Smithsonian Astrophysical Observatory, Harvard-Smithsonian Center for Astrophysics	Interstellar turbulence	Clay Fellow
Jerod Parrent	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	High-energy astrophysics, supernovae	
Asaf Pe'er	2012	Professor	University College Cork, Ireland	Emission from compact-objects, Gamma-ray bursts. Microquasars, and high-energy cosmic rays	
Ue-Li Pen	1999	Associate Professor	Canadian Institute for Theoretical Astrophysics	Cosmology, simulations, Sunyaev-Zeldovich Effect, galaxy spin correlations, Lyman Alpha forest	Einstein Fellow
Hagai Perets	2012	Assistant Professor	Technion, Israel	Stellar dynamics near massive black holes, atomic and molecular reactions on interstellar grains	Fulbright Fellow, Rothschild Fellow, CfA Fellow First Israeli National Scholarship
Ravi Pilla			Columbia University		
Annalisa Pillepich	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Galaxy formation and evolution, Milky Way's structure and assembly, clusters of galaxies and large-scale structure	
Jonathan Pritchard	2011	Assistant Professor	Imperial College London, England	The astrophysics of the 21 cm line of hydrogen with a view to making predictions for the upcoming generation of low- frequency radio telescopes, cosmic microwave background, reionization, large scale structure, inflation, dark energy, neutrino mass	Hubble Fellow
Darin Ragozine	2012	Assistant Professor	Florida Institute of Technology	Kuiper belt objects	
Olek Sadowski	2014	Postdoctoral Fellow	MIT	Accretion disks around compact objects	Einstein Fellow

Laura Sales	2015	Assistant Professor	UC, Riverside	Galaxy formation, dwarf and satellite galaxies, Local Group cosmology, ISM physics, early universe, numerical simulations	
Uros Seljak	1998	Professor	UC Berkeley	Weak lensing, galaxy clustering, cosmic microwave background (CMB) anisotropies, Lyman alpha forest, theory and cosmological simulations	David & Lucille Packard Fellow, Alfred P. Sloan Fellow, Helen B. Warner award, NSF CAREER award
Yue Shen	2012	Postdoctoral Fellow	Carnegie Observatory	Supermassive black hole (SMBH) population and its evolution across cosmic time	Clay Fellow Hubble Fellow
Debora Sijacki	2012	Assistant Professor	University of Cambridge, UK	Understanding the co-evolution of galaxies and their central black holes	Otto Hahn Medal - Max Planck Society, Hubble Fellow
Lorenzo Sironi	current	Postdoctoral Fellow	Harvard University, Harvard-Smithsonian Center for Astrophysics	Non-thermal emission from Pulsar Wind Nebulae, AGN jets, gamma-ray bursts	Einstein Fellow
Alicia Soderberg	2010	Associate Professor	Harvard University, Harvard-Smithsonian Center for Astrophysics	Radio, x-ray, and optical observations of supernovae and their environments; radio, optical, and x-ray transients; gamma-ray bursts and x-ray flashes; automation of small telescopes	Hubble Fellow Packard Fellow Sloan Fellow
Volker Springel	2000	Professor	Heidelberg Institute for Theoretical Studies	Galaxy formation, Numerical Cosmology, Dark matter and Dark energy	
Molly Swanson	2014	Postdoctoral Fellow		Dark Matter	NSF Fellow
Svetlin Tassev	2012	Postdoctoral Fellow	Princeton University	Accretion disks around black holes, dark matter	
Hy Trac	2010	Assistant Professor	Carnegie Mellon University	Astrophysics and cosmology research focuses on the development and application of N-body, hydrodynamic and radiative transfer algorithms; evolution of dark matter, baryons and stars in the universe; cosmic reionization, the Lyman alpha forest and the Synyaev-Zel'dovich effect	
Mark Vogelsberger	2014	Assistant Professor	M.I.T.	The structure of dark matter on very small scales and its implications for any kind of dark matter detection experiments	Rudolf-Kippenhahn Prize ITC Fellow Hubble Fellow
Matthew Walker	2013	Assistant Professor	Carnegie Mellon University	Dark matter, optical imaging, spectroscopy and dynamic modelling of the dwarf galaxies that surround the Milky Way and Andromeda	
David Wel Drake	2009		Australia	Extrasolar Planets, planetary transits, photometry, effect of environment on planetary frequency, variable stars, star clusters, dark matter, stellar populations in external galaxies, low surface brightness galaxies	

Beth Willman	2008	Associate Professor of Astronomy	Haverford College	Near field cosmology, comparisons between theory and observations of the local universe to learn about dark matter and galaxy formation; investigate observations of the Milky Way and the ultra-faint galaxies orbiting it are consistent with the Cold Dark Matter model of the Universe	James Arthur Fellow, Clay Fellow
Joshua Winn	2006	Associate Professor of Astronomy	MIT	Planet formation, theoretical model building, high-precision photometry of planetary transits, cosmology and galaxy structure	Fulbright Scholar, Hertz Fellow, NSF Fellow, NASA Fellow
Eric Woods		Visiting Assistant professor	State University of New York, Albany		
Stuart Wyithe	2002	Professor	University of Melbourne	Quasar formation and reionization in the early universe, evolution of the earliest galaxies, gravitational lensing, quasar microlensing, statistical properties of gravitational lensing by galaxies and clusters of galaxies	Hubble Fellow, Woodward Medal, Australian Res. Council Queen Elixzabeth II Fellow, Edgeworth David Medal, David Syme Research Prize, Pawsey Medal
Amit Yadav	2009	Member, Astrophysics	Princeton, Institute for Advanced Study	Cosmic Microwave background (CMB), primordial non-Gaussianity, and the weak gravitational lensing	
Feng Yuan	2003	Professor and Director of Astrophysics Division	Shanghai Astronomical Observatory	Black hole accretion, high-energy astrophysics, galaxy evolution	
Jaiyul Yoo	2010	Berkeley-Zurich Fellow	University of Zurich, UC Berkeley, Lawrence Berkeley Lab	Theoretical astrophysics and cosmology with close ties to observation, large-scale structure, weak gravitational lensing, cosmic microwave background, inflation and primordial non-Gaussianity	Donald H. Menzel Fellow

GRADUATE STUDENTS

<u>NAME</u>	<u>YEAR of DEPARTURE</u>	<u>CURRENT TITLE</u>	<u>CURRENT INSTITUTION</u>	<u>RESEARCH INTERESTS</u>	<u>AWARDS</u>
Fernando Becerra	current	Graduate Student	Harvard University	Numerical simulations, first stars and galaxies, black holes	
Gurtina Besla	2012	Assistant Professor	University of Arizona	Dark matter, galaxy formation	Hubble Fellow
Laura Blecha	2012	Postdoctoral Fellow	University of Maryland	Black hole theory, Supermassive Black Holes in merging galaxies, including signatures of recoiling black holes and dual AGN	Gates Cambridge Scholar Einstein Fellow
Stephanie Bush	2010		Industry	Observation and numerical simulations to study star formation in galaxies; star formation in outer disks	Winston Churchill Scholar
Pierre Christian	current	Graduate Student	Harvard University	Black holes and strong gravity	
Kunting "Eddie" Chua	current	Graduate Student	Harvard University	Cosmology, galaxy evolution and computational astrophysics	
Randall Cooper	2008	Vice President	Goldman Sachs	X-ray bursts	Stanley P. Wyatt award, Ernest P. Lyman Prize
Rebekah Dawson	2013	Postdoctoral Fellow	UC Berkeley	Extra-solar planets, the Kuiper Belt, debris disks, dynamics of planetary and satellite systems, signal processing, astrostatistics	Block Prize Fireman Prize Miller Fellow
Marion Dierickx	current	Graduate Student	Harvard University	Galactic formation and evolution, local group dynamics, galactic mergers	
Maria Drout	current	Graduate Student	Harvard University	Massive star evolution, stellar death/supernovae, unusual transients	
Miguel de Val Borro	2009	Staff, Planets & Comets Dept.	Max Planck Institute for Solar System Research	Numerical simulations of gaseous disks in binary systems	
Jason Dittmann	current	Graduate Student	Harvard University	Exoplanets and low-mass stars	
Ann Esin	1998	Professor	Harvey Mudd College	Theoretical astrophysics and observational astronomy	Chandra Fellow
Claude-Andre Faucher-Giguere	2010	Assistant Professor	Northwestern University	Intergalactic medium, radiation backgrounds, galaxy formation, Ly-alpha emission, high-energy astrophysics	Miller Fellow
Cesar Fuentes	2010	Postdoctoral Fellow	Northern Arizona University	Formation and evolution of the Solar system, in particular: trans-neptunian objects	Fulbright Fellow
Greg Green	current	Graduate Student	Harvard University	Galactic structures, cosmology	

Xinyi Guo	current	Graduate Student	Harvard University	Computational and theoretical astrophysics	
Joel Hartman	2008	Associate Research Scholar	Princeton University	HATNet project, searching for transiting planets that orbit bright stars, deep MMT Transit Survey of the open cluster M37, variable stars in M33	
Chris Hayward	2012	Postdoctoral Fellow	Caltech	Global cluster systems	
Ryan Hickox	2007	Assistant Professor	Dartmouth College	Active galactic nuclei, large-scale structure of the universe, the cosmic X-ray background and X-ray binary pulsars	Marshall Fellow
Philip Hopkins	2008	Assistant Professor	Caltech	Galaxy and quasar evolution, black hole formation and evolution	Miller Fellow
Hannah Jang-Condell	2004	Assistant Professor	University of Wyoming	Planet formation theory, protoplanetary disk models, extrasolar planets, astrobiology	Kavli Fellow, Michelson Fellow
Luke Kelley	current	Graduate Student	Harvard University	High energy astrophysics, strong-gravity phenomena	
Gongjie Li	current	Graduate Student	Harvard University	Long-term orbital evolution in large mass ratio multiples	
Tongyan Lin	2012	Postdoctoral Fellow	KICP, University of Chicago	Inelastic dark matter and particle astrophysics	Philip Morse Award, NSF Fellow
Rohan Mahadevan	1997	Vice-President	PayPal	Advection Dominated Accretion	
Sui Ann Mao	2011	Postdoctoral Fellow	University of Wisconsin - Madison	Time-dependant accretion disks in one dimension, excitation mechanism of oscillations in such flows	NRAO Jansky Fellow
Robert Marcus	2011	Systems Engineer	Northrup Grumman Corp.	Planet formation via hydrodynamic and N-body simulations	
Matthew McQuinn	2009	Assistant Professor	University of Washington	Morphology of the reionization epoch	Einstein Fellow
Kristen Menou	1999	Associate Professor	Columbia University	Astrophysical fluid dynamics, extrasolar planets, massive black holes	Chandra Fellow, Celerity Foundation Fellow
Phil Mocz	current	Graduate Student	Harvard University	Numerical methods, MHD, and application to structure formation and ISM	
Eliza (Miller-Ricci) Kempton	2009	Assistant Professor	Grinnell College	Theoretical models of extrasolar super-earth atmospheres	Sagan Fellow
Diego Munoz	2013	Research Associate	Cornell University	Hydrodynamical simulations of protoplanetary/circumstellar/accretion disks	
Joey Munoz	2010	Postdoctoral Fellow	UCSB	Accretion disks around black holes	
Dylan Nelson	current	Graduate Student	Harvard University	Modeling cosmological gas accretion	
Ryan O'Leary	2010	Postdoctoral Fellow	UC Berkeley	Black holes, gravitational waves, dark matter	Einstein Fellow
Feryal Ozel	2002	Associate Professor	University of Arizona	Neutron star interiors, reionization, supermassive black holes, magnetars, accretion physics, distances to X-ray sources	Kostrup Prize, Keck Fellow, Hubble Fellow

Tony Pan	2013	Principal Scientist	Invention Science Fund	Epoch of reionization, gamma-ray bursts	Paul & Daisy Soros Fellow Hertz Fellow NSF Fellow
Kaloyan Penev	2009	Associate Research Scholar	Princeton University	Strong gravitational lensing	Peirce Fellow
Robert Penna	2013	Postdoctoral Fellow	M.I.T.	Magnetized disks surrounding black holes	Keto Prize Pappalardo Fellow
Rosalba Perna	1999	Associate Professor	University of Colorado	High energy astrophysics, cosmology, exoplanets	
Stephen Portillo	current	Graduate Student	Harvard University	Astrophysical detection of dark matter	
Eliot Quataert	1999	Professor, Director	Theoretical Astrophysics Center, UC Berkeley	Supermassive black holes, high-energy astrophysics, plasma astrophysics and galaxy formation, supernovae explosions, gamma-ray bursts, formation and evolutions of galaxies, dynamics of gas in starbursts, active galactic nuclei and galaxy clusters	Chandra Fellow, Alfred P. Sloan Fellow, Packard Fellow, Bart J. Bok Prize, Helen B. Warner Prize, APS Fellow, Noyce Prize
Brant Robertson	2006	Assistant Professor	University of Arizona	Theoretical topics related to galaxy formation, dark matter, hydrodynamics and numerical simulation methodologies	Spitzer Fellow, KICP
Vicente Rodrigues-Gomez	current	Graduate Student	Harvard University	Cosmology, numerical simulations	
Nathan Sanders	2014	Applied Statistician	Industry		
Eddie Schlafly	2012	Postdoctoral Fellow	Max Planck Institute for Astronomy, Heidelberg, Germany	Measuring the optical properties and distribution of dust with SDSS and Pan-STARRS	
Rebecca Shafee	2008	Postdoctoral Fellow in Genetics	Harvard Medical School	Measuring black hole spin	Van Vleck Prize, An Wang Fellow, ITC Keto Prize, Swartz Fellow
Roman Shcherbakov	2011	Assistant Research Associate	University of Maryland	Plasma physics, the theory of Magnet Hydrodynamic turbulence, MHD models, plasma radiative transfer with application to accretion onto compact objects, ISM processes and galaxy clusters	Hubble Fellow
Tracy Slatyer	2010	Assistant Professor	M.I.T.	Dark matter, high energy astrophysical phenomena, cosmology and extragalactic astrophysics	Sir Keith Murdoch Fellow, Goldhaber Prize
Gregory Snyder	2013	Postdoctoral Fellow	Space Telescope Science Institute	Large-scale simulations of galaxy formation	
Nick Stone	2013	Postdoctoral Fellow	Columbia University	Supermassive black holes	
Meng Su	2012	Postdoctoral Fellow	MIT	Dark energy, gamma-ray bursts and diffuse Galactic gamma-ray emission	Einstein Fellow Pappalardo Fellow
Josh Suresh	current	Graduate Student	Harvard University		

Svetlin Tassev	2011	Postdoctoral Fellow	Harvard University	Accretion disks around black holes, dark matter	
Alexandre (Sasha) Tchekhovskoi	2010	Postdoctoral Fellow	UC Berkeley	Compact objects, black hole accretion, relativistic magnetized outflows/jets, gamma ray bursts, active galactic nuclei, high-order numerical methods and neutron stars	Einstein Fellow, Philip Putnam Chase Fellow
Paul Torrey	2014	Postdoctoral Fellow	MIT	Galaxy formation using numerical simulations	
Eli Visbal	2013	Postdoctoral Fellow	Columbia University	Cosmology	
Xiawei Wang	current	Graduate Student	Harvard University	Galaxies, black holes, radiative processes	
Sarah Wellons	current	Graduate Student	Harvard University	Computational and galaxy formation	
Oliver Zahn	2007	Postdoctoral Fellow	Lawrence Berkeley National Laboratory	Cosmic microwave background, large scale structure, gravitational lensing	