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Institute for Theory and Computation

Harvard-Smithsonian Center for Astrophysics

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Alumni

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.

Name	Year of Departure	Current Title	Current Institution
Diana Powell	2023	Assistant Professor	University of Chicago

Jamie Law-Smith	2023	Assistant Professor	University of Chicago
Kareem El-Badry	2023	Assistant Professor	Caltech
Matthew Liska	2023	Einstein Fellow and Research Faculty	Georgia Tech
Aaron Smith	2023	Assistant Professor	University of Texas Austin
Rahul Kannan	2023	Assistant Professor, Department of Physics and Astronomy	York University
Kirk Barrow	2022	Assistant Professor	University of Illinois at Urbana-Champaign.
Bryan Terrazas	2022	Postdoctoral Researcher	Columbia
Anna Rosen	2022	Assistant Professor	UCSD
Rainer Weinberger	2021	CITA Postdoctoral Fellow	University of Toronto
Sownak Bose	2021	Assistant Professor	Durham University
Ana Bonaca	2021	Staff Scientist	Carnegie Observatories
Shmuel Bialy	2021	Assistant Professor	Technion University (Israel)
Paul Duffell	2020	Assistant Professor	Purdue University
Erica Nelson	2020	Assistant Professor	University of Colorado, Boulder
Carl Rodriguez	2020	Assistant Professor	University of North Carolina
Daniel D'Orazio	2020	Assistant Professor	University of Copenhagen
Michelle		Data Scientist and	

Ntampaka	2020	Assistant Astronomer	STSci
Antonija Oklopcic	2020	Assistant Professor	University of Amsterdam
Laura Kreidberg	2019	Director, Atmospheric Physics of Exoplanets	Max Planck Institute for Astronomy
John Forbes	2019	Flatiron Research Fellow	Center for Computational Astrophysics
Benedikt Diemer	2019	Assistant Professor	University of Maryland
Anna Ijjas	2019	Senior Research Scientist	New York University
Manasvi Lingham	2019	Assistant Professor	Florida Tech
Anastasia Fialkov	2018	Senior Research Fellow	Kavli Institute for Cosmology (Cambridge, UK)
Federico Marinacci	2018	Associate Professor	University of Bologna
Blakesley Burkhart	2018	Assistant Professor	Rutgers
Caroline Morley	2018	Assistant Professor	Univ Texas at Austin
Gongjie Li	2018	Assistant Professor	Georgia Tech
Ilse Cleeves	2018	Assistant Professor	University of Virginia
Xuening Bai	2017	Faculty (Associate Professor)	Institute for Advanced Study at Tsinghua University (IASTU) and Tsinghua Center for Astrophysics (THCA).

Marion Dierickx	2017	Research Associate, J. Kovac Lab	CfA
Danny Milisavljevic	2017	Assistant Professor	Purdue University
Sayan Chakraborti	2016	Researcher	Renaissance Technologies LLC
Cora Dvorkin	2016	Associate Professor	Harvard University, Dept. of Physics
Yanfei Jiang	2016	Associate Research Scientist, Planet Formation	CCA, Flatiron Institute
Lorenzo Sironi	2016	Assistant Professor	Columbia University
Annalisa Pillepich	2015	Independent Research Group Leader, G&C Theory	Max Planck Institute for Astronomy, Heidelberg, Germany
Raffaella Margutti	2015	Associate Professor	UC Berkeley
Cameron McBride	2015	Vice President of Data Science, Engagement Analytics	Hydrow, Inc.
Michael McCourt	2015	Principal Data Scientist	Invoca
Thomas Greif	2015		Deceased
Laura Sales	2015	Associate Professor	UC, Riverside
Konstantin Batygin	2014	Professor	Caltech
Simeon Bird	2014	Professor	UC Riverside
Shy Genel	2014	Associate Research Scientist	The Flatiron Institute Center for Computational Astrophysics

Smadar Naoz	2014	Associate Professor	UCLA
Olek Sadowski	2014	Senior Quantitative Researcher	Akuna Capital
Molly Swanson	2014	Physics and Math Teacher	Art of Problem Solving Academy, Lexington
Mark Vogelsberger	2014	Associate Professor	M.I.T.
Tassos Fragos	2013	Assistant Professor	Geneva Observatory, University of Geneva
Bence Kocsis	2013	Associate Professor	Oxford University
Marc Metchnik	2013		
Matthew Walker	2013	Associate Professor	Carnegie Mellon University
Charlie Conroy	2012	Professor	Harvard University
Elena D'Onghia	2012	Professor	University of Wisconsin, Madison
Anna Frebel	2012	Professor	M.I.T.
Lijun Gou	2012	Professor	National Astronomical Observatories of China
Patrik Jonsson	2012	Senior GNC Engineer	Space-X
Kaitlin Kratter	2012	Associate Professor	Univ. of Arizona
Stella Offner	2012	Associate Professor	University of Texas at Austin
Asaf Pe'er	2012	Professor	University College Cork, Ireland
Hagai Perets	2012	Associate Professor	Technion, Israel

Darin Ragozine	2012	Associate Professor	BYU
Yue Shen	2012	Associate Professor	University of Illinois
Debora Sijacki	2012	Assistant Professor	University of Cambridge, UK
Svetlin Tassev	2012	Physics Teacher	Braintree High School, MA
Matija Cuk	2011	Research Scientist	SETI Institute
Eric Hallman	2011	Internal Consultant	Ab Initio Software
Mario Juric	2011	Professor	University of Washington
Uri Keshet	2011	Associate Professor	Ben-Gurion University
Akshay Kulkarni	2011	Software Engineer	Microsoft, Inc
Jifeng Liu	2011	Principal Astronomer	National Astronomical Observatories of China
Jonathan Pritchard	2011	Senior Lecturer	Imperial College London, England
Yuval Birnboim	2010	Associate Professor	Racah institute of Physics
Chi Kwan Chan	2010	Associate Astronomer/Research Professor	University of Arizona
Mark Dijkstra	2010	Data Scientist	Stitch Fix
Daniel Fabrycky	2010	Associate Professor	University of Chicago
Alison Farmer	2010	Associate Director of Global Engineering	Vertex Pharmaceuticals
Dusan Keres	2010	Professor	UC San Diego

Ruth Murray - Clay	2010	Professor	UC Santa Cruz
Desika Narayanan	2010	Professor	Haverford College
Hiroshi Oda	2010		Japan Aerospace Exploration Agency
Alicia Soderberg	2010		
Hy Trac	2010	Professor	Carnegie Mellon University
Jaiyul Yoo	2010	Professor	University of Zurich
Daniel Baumann	2009	Professor	University of Amsterdam
Sukanya Chakrabarti	2009	Professor	University of Alabama, Huntsville
Thomas (T.J.) Cox	2009	Data Scientist	Apple
Gregory Dobler	2009	Assistant Professor	University of Delaware
Adam Lidz	2009	Associate Professor	University of Pennsylvania
David Weldrake	2009	Director, GIS & Spatial Services	MBDA (Australia)
Amit Yadav	2009		
Beth Willman	2008	CEO and Director for Science	LSST
Niayesh Afshordi	2007	Professor	University of Waterloo and Perimeter Institute
Joseph Barranco	2007	Professor and Chair	San Francisco State University
			University of

Avery Broderick	2007	Associate Professor	Waterloo and Perimeter Institute
Eric Ford	2007	Professor	Penn State University
Tommy Grav	2007	Senior Staff Scientist	Lunar & Planetary Lab, University of Arizona
Yuexing Li	2007	Professor	Penn State University
Jonathan McKinney	2007	Director of Research	H2O.ai
Yeshe Fenner	2006	Chief Operating Officer	ARC Centre of Excellence for Gravitational Wave Discovery (OzGrav)
Kazunori Kohri	2006	Professor	National Astronomical Observatory of Japan (NAOJ)
Miguel Morales	2006	Professor	University of Washington
Banibrata Mukhopadhyay	2006	Professor	Indian Institute of Science
Joshua Winn	2006	Associate Professor	M.I.T.
Volker Bromm	2004	Professor	University of Texas, Austin
Ken Nagamine	2004	Professor	Osaka University
James Bullock	2004	Professor	UC Irvine
Naoki Yoshida	2003	Professor	University of Tokyo
Rosalba Perna	2003	Professor	Stony Brook University
		Professor and	Shanghai

Feng Yuan	2003	Director of Astrophysics Division	Astronomical Observatory
Stuart Wyithe	2002	Professor	University of Melbourne
Tom Abel	2001	Professor	Stanford
Robert Croft	2001	Professor	Carnegie Mellon
Tiziana Di Matteo	2001	Professor	Carnegie Mellon
Vicky Kalogera	2001	Professor	Northwestern University
Dimitrios Psaltis	2000	Professor	Georgia Tech
Woong-Tae Kim	2000	Professor	Seoul National University
Mikhail Medvedev	2000	Professor	University of Kansas
Volker Springel	2000	Director	Max Planck Institute for Astrophysics
Ue-Li Pen	1999	Professor	Canadian Institute for Theoretical Astrophysics
Charles Gammie	1998	Professor	University of Illinois
Uros Seljak	1998	Professor	UC Berkeley
Eve Ostriker	1996	Professor	Princeton University
Shude Mao	1995	Professor and Chair	Tsinghua University
David Clarke	1993	Professor	Saint Mary's University, Nova Scotia, Canada
B. Scott Gaudi		Professor	The Ohio State University
Christopher		Professor	The Ohio State

Kochanek			University
Ravi Pilla			Columbia University
Eric Woods		Visiting Assistant Professor	State University of New York, Albany

Name	Year of Departure	Current Title	Current Institution
Andrew Saydjari	2024	Postdoctoral Fellow	Harvard College Observatory
Magdalena Siwek	2024	Postdoctoral Fellow	Harvard College Observatory
Zachary Murray	2024	Postdoctoral Fellow	Smithsonian Astrophysical Observatory
Michael Foley	2024		
Ana Maria Delgado	2024	Postdoctoral Fellow	Harvard College Observatory
Daniel Palumbo	2023	Fellow	Harvard Black Hole Initiative
Tanveer Karim	2023	FAS Fellow and Dunlap Fellow	University of Toronto
Floor Broekgaarden	2023	Junior Fellow	Simons Society of Fellows
Chantanelle Nava	2022	Assistant Professor in Astronomy &	University of Montana

		Physics	
Brandon Curd	2022	Postdoctoral Fellow	UTSA
Nina Maksimova	2022	David Foundation Scholar	St. Andrews University
Boryana Hadzhiyska	2022	Miller Postdoctoral Fellow	UC Berkeley
Xiaohan Wu	2022	Postdoctoral Fellow	CITA
Rohan Naidu	2022	Papalardo Fellow	MIT
Loana Zelko	2021	Postdoctoral Fellow	CITA, University of Toronto
Ana-Roxana Pop	2021	ML Research Scientist	Meta
Seth Gossage	2021	CIERA PostDoctoral Fellow	Northwestern University
Sihan Yuan	2021	KIPAC Postdoctoral Fellow	Stanford University
Ellen Price	2021	51 Pegasi b PostDoctoral Fellow	University of Chicago
Josh Speagle	2020	Dunlap Postdoctoral Fellowship	Univ Toronto
Jane Huang	2020	Sagan Fellow	Univ of Michigan
Zoe Todd	2020	Sagan Fellow	Univ of Washington
Peter Blanchard	2019	Ciero Fellow	Northwestern
		Junior	

Benjamin Cook	2019	Quantitative Researcher	Akuna Capitol (Boston)
Lehman H. Garrison	2019	Flatiron Research Fellow	CCA (Flatiron Institute)
Yutong Shan	2019	Postdoc Fellow	University of Goettingen
Meng Gu	2019	Russell Postdoc Fellow	Princeton
Xiawei Wang	2019	Consultant/Senior Data Scientist	Boston Consulting Group (BCG)
Kate Alexander	2018	Einstein Fellow	Northwestern
How-Huan Chen	2018	CNS Fellow	Univ Texas Austin
Jieun Choi	2018	Sr Applied ML Scientist	Netflix
Kunting Chua	2018	Research Scientist	Institute of High Performing Computing (Singapore)
Philip S. Cowperthwaite	2018	Hubble Fellow	Carnegie Observatories
Christopher Faesi	2018	NSF Fellow	UMass Amherst
Pierre Christian	2018	Physics Faculty	Fairfield University
Ryan Loomis	2018	Jansky Fellow	NRAO
Anjali Tripathi	2018	Scientist	Raytheon
Stephen Portillo	2018	DIRAC Fellow & UW Data Science Fellow	Univ of Washington
Xinyi Guo	2017	Research	D.E. Shaw

		Scientist	Research
Philip Mocz	2017	Einstein Fellow	Princeton
Dawn Graninger	2017	Senior Professional Staff, Applied Physics Lab	The Johns Hopkins University
Kirit Karkare	2017	Postdoc Researcher, Physics	Univ of Chicago
Meredith A. MacGregor	2017	Assistant Professor	Boulder
Natalie Mashian Fisher	2017	Visiting Professor of Physics & Astronomy	Pomona College
Sukrit Ranjan	2017	SCOL Fellow	MIT
Joshua Suresh	2017	Research Scientist	Institute for Disease Modeling
Yuan-Sen Ting	2017	Hubble Fellow	IAS
Andrew Vanderburg	2017	Assistant Professor	U Wisconsin-Madison
Sarah Wellons	2017	CIERA Fellow	Northwestern
Maria Drout	2016	Hubble Postdoctoral Fellow	Carnegie Observatories
Douglas Ferrer	2016	Robotics Software Engineer	iRobot
Gregory Green	2016	Postdoctoral Fellow	Stanford University / KIPAC
Luke Zoltan Kelley	2016	Astrophysics Research Fellow	Harvard University
Gongjie Li	2016	Assistant Professor	Georgia Tech

Dylan Nelson	2016	Postdoctoral Fellow	Max Planck Institute for Astronomy, Garching
Vicente Rodrigues-Gomez	2016	Postdoctoral Fellows	Space Telescope Science Institute
Laura Schaefer	2016	Assistant Professor	Stanford
Yucong Zhu	2016	Quantitative Analyst	D.E.Shaw Group
Nathan Sanders	2014	Senior Director of Quantitative Analysis	Legendary Entertainment
Paul Torrey	2014	Postdoctoral Fellow	MIT
Rebekah Dawson	2013	Assistant Professor	Penn State University
Diego Munoz	2013	Research Associate	Cornell University
Tony Pan	2013	Princial Scientists	Invention Science Fund
Robert Penna	2013	Postdoctoral Fellow	M.I.T.
Gregory Snyder	2013	Postdoctoral Fellow	Space Telescope Science Institute
Nick Stone	2013	Postdoctoral Fellow	Columbia University
Eli Visbal	2013	Postdoctoral Fellow	Columbia University
Gurtina Besla	2012	Assistant Professor	University of Arizona
		Postdoctoral	University of

Laura Blecha	2012	Fellow	Maryland
Chris Hayward	2012	Associate Research Scientist	Flatiron Institute Center for Computational Astrophysics
Tongyan Lin	2012	Postdoctoral Fellow	Berkeley Center for Theoretical Physics
Eddie Schlafly	2012	Postdoctoral Fellow	Lawrence Berkeley National Laboratory
Meng Su	2012	Postdoctoral Fellow	MIT
Sui Ann Mao	2011	Postdoctoral Fellow	University of Wisconsin - Madison
Robert Marcus	2011	Systems Engineer	Northrup Grumman Corp.
Roman Shcherbakov	2011	Software Engineer	Teradata
Svetlin Tassev	2011	Physics Teacher	Braintree High School, MA
Stephanie Bush	2010	Research Scientist	Industry
Claude-Andre Faucher-Giguere	2010	Assistant Professor	Northwestern University
Cesar Fuentes	2010	Assistant Professor	CATA, Universidad de Chile
Joey Munoz	2010	Postdoctoral Fellow	UCSB
Ryan O'Leary	2010	Postdoctoral Fellow	UC Berkeley

Tracey Slatyer	2010	Assistant Professor	M.I.T
Alekandre (Sasha) Tchekhovskoi	2010	Postdoctoral Fellow	UC Berkeley
Miguel de Val Borro	2009	Postdoctoral Fellow	Princeton, HATSouth Survey
Matthew McQuinn	2009	Assistant Professor	University of Washington
Eliza (Miller-Ricci) Kempton	2009	Assistant Professor	Grinnell College
Kaloyan Penev	2009	Associate Research Scholar	Princeton University
Randall Cooper	2008	Data Scientist	Goldman Sachs
Joel Hartman	2008	Associate Research Scholar	Princeton University
Philip Hopkins	2008	Assistant Professor	Caltech
Rebecca Shafee	2008	Postdoctoral Fellow in Genetics	Harvard Medical School
Ryan Hickox	2007	Assistant Professor	Dartmouth College
Oliver Zahn	2007	Executive Director	Berkeley Center for Cosmological Physics
Brant Robertson	2006	Associate Professor	University of Arizona
Hannah Jang-Condell	2004	Assistant Professor	University of Wyoming
			University of

Feryal Ozel	2002	Professor	Arizona
Kristen Menou	1999	Associate Professor	Columbia University
Rosalba Perna	1999	Associate Professor	University of Colorado
Eliot Quataert	1999	Professor, Director	Theoretical Astrophysics Center, UC Berkeley
Ann Esin	1998	Professor, Director	Harvey Mudd College
Rohan Mahadevan	1997	Vice-President	PayPal