Harshil M. Kamdar

CV

Harvard-Smithsonian Center for Astrophysics
60 Garden Street
Cambridge, MA 02138

harshil.kamdar@cfa.harvard.edu
(978) 886-9400
@harshilkamdar

Education

Ph.D. in Astronomy and Astrophysics — 2016 – Present
Harvard University, Cambridge, MA, USA
Advisor: Charlie Conroy

S.M. in Computational Science & Engineering — 2016 – Present
Harvard University, Cambridge, MA, USA

B.S. in Physics, B.S. in Astronomy — 2012 – 2016
University of Illinois, Urbana, IL, USA
Advisors: Robert Brunner, Matthew Turk

Honors & Awards

DOE Computational Science Graduate Fellowship	2016 – Present
Robert E. Hetrick Senior Thesis Prize	2016
Stanley J. Wyatt Memorial Award	2016
NSF Blue Waters Computational Internship	2015 – 2015
Harry E. Preble Award for Undergraduate Research	2014, 2015
University Achievement Scholar	2012 – 2016

Publications **6 Total; 5 As First Author; 70+ Citations**

Mapping the Milky Way in 5-D with 170 Million Stars at High Galactic Latitude
Joshua Speagle, Catherine Zucker, Phillip Cargile, et al., **in preparation**

Spatial and Kinematic Clustering of Stars in the Galactic Disk
Harshil Kamdar, Charlie Conroy, Yuan-Sen Ting, **in preparation**

Stars that Move Together Were Born Together
Harshil Kamdar, Charlie Conroy, Yuan-Sen Ting, et al. **ApJL, 884 (2), L42**

A Dynamical Model for Clustered Star Formation in the Milky Way Disk
Harshil Kamdar, Charlie Conroy, Yuan-Sen Ting, et al. **ApJ, 884 (2), 173**

Machine Learning and Cosmological Simulations II: Hydrodynamical Simulations
Harshil Kamdar, Matthew Turk, Robert Brunner, **MNRAS, 457 1162**

Machine Learning and Cosmological Simulations I: Hydrodynamical Simulations
Harshil Kamdar, Matthew Turk, Robert Brunner, **MNRAS, 455, 642**

Professional Activities

Practicum at National Renewable Energy Laboratory (advisor: Dr. Caleb Phillips)	May 2018 – Aug 2018
Communicating Science Conference LOC Chair	2018 – Present
Manuscript Referee: MNRAS	2017 – Present
Resident Tutor at Mather House: *Fellowships Committee,*	

	Hiring Committee	2017 – Present
	Science By The Pint Moderator	2016 – Present
	Graduate Student Council Representative	2016 – Present

Talks & Posters

Talks (†Invited)

†ITC Lunch Talk, Harvard University, *Cambridge, MA*	Oct 2019
IAU Symposium 353, *Shanghai, China*	Jun 2019
53rd ESLAB Gaia Symposium, *ESA, Netherlands*	Apr 2019
KITP Program: Dynamical Models for Stars and Gas in Galaxies in the Gaia Era, *Santa Barbara, CA*	Mar 2019
Life and Times of the Milky Way, *Shanghai, China*	Nov 2018
Machine Learning Journal Club, *Harvard University, Cambridge, MA*	Mar 2018, Apr 2018
Eisenstein Group Meeting, *Harvard University, Cambridge, MA*	Dec 2017
†Astrophysics, Cosmology, and Gravitation Seminar, *University of Illinois, Urbana, IL*	Feb 2016
Dept of Physics Undergraduate Research Symposium, *University of Illinois, Urbana, IL*	Jan 2016
DES Chicagoland Meeting, *NCSA, Urbana, IL*	Dec 2015

Posters

DOE CSGF Program Review, *Arlington, VA*	Jul 2017, 2018, 2019
227th AAS Conference, *Kissimmee, FL*	Jan 2016
Undergraduate Research Symposium, *Urbana, IL*	Apr 2015, 2016
Annual Computational Science & Engineering Meeting, *Urbana, IL*	Apr 2014

Skills Python, C++, JavaScript, Matlab, OpenMP, MPI, Mathematica, LaTeX, PyTorch, TensorFlow