

HARSHIL M. KAMDAR

Resume

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 Harvard University, Cambridge, MA, USA Advisor: Charlie Conroy	2016 – Present
	S.M. IN COMPUTATIONAL SCIENCE & ENGINEERING Harvard University, Cambridge, MA, USA ‘	2016 – Present
	B.S. IN PHYSICS B.S IN ASTRONOMY University of Illinois, Urbana, IL, USA Advisor: Robert Brunner, Matthew Turk	2012 – 2016
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
Professional Activities	UNIVERSITY ACHIEVEMENT SCHOLAR	2012 – 2016
	PRACTICUM AT NATIONAL RENEWABLE ENERGY LABORATORY	May 2018 – Aug 2018
	COMMUNICATING SCIENCE CONFERENCE LOC CO-CHAIR	2018 – Present
	MANUSCRIPT REFEREE: MNRAS	2017 – Present
	RESIDENT TUTOR AT MATHER HOUSE: FELLOWSHIPS COMMITTEE, HIRING COMMITTEE, INTRAMURALS COMMITTEE	2017 – Present
	SCIENCE BY THE PINT MODERATOR	2016 – Present
	GRADUATE STUDENT COUNCIL REPRESENTATIVE	2016 – Present
Skills	Python, C++, Matlab, OpenMP, MPI, Mathematica, L ^A T _E X	
Talks & Posters	POSTER: THE PHASE SPACE AND CHEMICAL SPACE STRUCTURE OF THE MILKY WAY <i>DOE CSGF Program Review, Washington DC</i>	2018
	TALK: TREE REGULARIZATION OF DEEP MODELS FOR INTERPRETABILITY <i>Machine Learning Journal Club, Cambridge, MA</i>	2018
	TALK: WARPING COSMOLOGICAL SIMULATIONS USING MACHINE LEARNING <i>Eisenstein Research Group Meeting, Cambridge, MA</i>	2017
	TALK: GENERATIVE ADVERSARIAL NETWORKS <i>Machine Learning Journal Club, Cambridge, MA</i>	2017
	POSTER: MACHINE LEARNING AND COSMOLOGICAL SIMULATIONS <i>DOE CSGF Program Review, Washington DC</i>	2017
	TALK: MACHINE LEARNING AND COSMOLOGICAL SIMULATIONS <i>Astrophysics, Cosmology, and Gravitation Seminar, Urbana, IL</i>	2016

TALK: MACHINE LEARNING AND COSMOLOGICAL SIMULATIONS <i>Department of Physics Undergraduate Research Symposium, Urbana, IL</i>	2016
POSTER: MACHINE LEARNING AND COSMOLOGICAL SIMULATIONS <i>Presentation #342.05, 227th AAS Conference, Kissimmee, FL</i>	2016
TALK: MOCK CATALOGS USING MACHINE LEARNING <i>DES Chicagoland Meeting, Urbana, IL</i>	2015
POSTER: A PROBABILISTIC CORRELATION FUNCTION <i>Annual Computational Science & Engineering Meeting, Urbana, IL</i>	2014

**First-Author
Publications**

THE PHASE SPACE AND CHEMICAL SPACE STRUCTURE OF THE MILKY WAY
Harshil Kamdar, Charlie Conroy, Yuan-Sen Ting, *In Preparation*

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