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 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
	University Achievement Scholar	2012 – 2016

Professional Activities		
	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, LaTeX

Talks & Posters		
	Poster: The Phase Space and Chemical Space Structure of the Milky Way *DOE CSGF Program Review, Washington DC*	2018
	Talk: Tree Regularization of Deep Models for Interpretability *Machine Learning Journal Club, Cambridge, MA*	2018
	Talk: Warping Cosmological Simulations Using Machine Learning *Eisenstein Research Group Meeting, Cambridge, MA*	2017
	Talk: Generative Adversarial Networks *Machine Learning Journal Club, Cambridge, MA*	2017
	Poster: Machine Learning and Cosmological Simulations *DOE CSGF Program Review, Washington DC*	2017
	Talk: Machine Learning and Cosmological Simulations *Astrophysics, Cosmology, and Gravitation Seminar, Urbana, IL*	2016

Talk: Machine Learning and Cosmological Simulations 2016
Department of Physics Undergraduate Research Symposium, Urbana, IL

Poster: Machine Learning and Cosmological Simulations 2016
Presentation #342.05, 227th AAS Conference, Kissimmee, FL

Talk: Mock Catalogs Using Machine Learning 2015
DES Chicagoland Meeting, Urbana, IL

Poster: A Probabilistic Correlation Function 2014
Annual Computational Science & Engineering Meeting, Urbana, IL

Firt-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 Comsological Simulations II: Hydrodynamical Simulations
Harshil Kamdar, Matthew Turk, Robert Brunner, *MNRAS, 457 1162*

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