

FERAH MUNSHI

Curriculum Vitae

Department of Physics & Astronomy
Rutgers University
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Piscataway, NJ

Contact Information
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US Citizen

Education	UNIVERSITY OF WASHINGTON Ph.D. in Astronomy Thesis Title: “Star Formation in Cosmological N-body Simulations” Thesis Advisor: Thomas Quinn	Dec 2013
	UNIVERSITY OF WASHINGTON M.S. in Astronomy	Sept 2010
	UNIVERSITY OF CALIFORNIA, BERKELEY B.A. in Astrophysics	Dec 2007
Research Interests	Near-Field Cosomology, Galaxies, Star Formation, Stellar IMF, Big Data	
Postdoctoral Appointments	VIDA POSTDOCTORAL FELLOW, VANDERBILT UNIVERSITY	Jan 2017-
	VISITING POSTDOCTORAL RESEARCHER, RUTGERS UNIVERSITY	Jan 2016-July 2016
	POSTDOCTORAL RESEARCHER, U. OKLAHOMA	Jan 2014-Dec. 2016
Pre-Doctoral Appointments	GRADUATE STUDENT RESEARCHER, U. WASHINGTON Supervisors: Fabio Governato & Tom Quinn	2010 – 2013
	COURSE INSTRUCTOR, U. WASHINGTON, PRE-MAP	2011
	GRADUATE RESEARCH ASSISTANT, U. WASHINGTON Supervisor: Suzanne Hawley	2009
	TEACHING ASSISTANT, U. WASHINGTON Astro 101 & Astro 150	2008-2009
	RESEARCH ASSOCIATE, SPITZER SCIENCE CENTER Supervisor: Kartik Sheth	Summer 2008
	RESEARCH ASSOCIATE, UC BERKELEY Supervisor: Saul Perlmutter & Nao Suzuki	2006-2008

REU STUDENT, NOAO Summer 2007
Supervisor: Lucas Macri

RESEARCH INTERN, CFA Summer 2006
Supervisor: Karen Masters & John Huchra

Invited Talks

March 2016: Seminar Talk, Rutgers *Ali Baba & The 40 Thieves*
Feb. 2016 Seminar Talk, AMNH *Ali Baba & the 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
September 2015: Lunch Talk, UCL *The 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
February 2015 Seminar Talk, Harvard University *The 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
November 2014: Seminar Talk, University of California, Irvine *Star Formation in Dwarf Galaxies*
November 2014: Seminar Talk, University of California, Riverside *Star Formation in Dwarf Galaxies*
October 2012: Colloquium, Marquette University *Star Formation in Dwarf Galaxy Simulations*

Selected Talks

October 2015: Contributed Talk, GMT Science Meeting *The 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
September 2015: Contributed Talk, IoA, Cambridge University- Modelling Galaxies *The 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
June 2015: Contributed Talk, University of Michigan- Astrostatistics *The 40 Thieves: A High Resolution Simulation of Dwarf Galaxies*
Feb. 2015: Theory Lunch, University of Maryland
Feb. 2015: Galaxy Journal Club, STScI
November 2014: Lunch Talk, Caltech *Star Formation in Dwarf Galaxies*
August 2014: Contributed Talk, UCSC *(very) Initial Results from an Extremely high-resolution Dwarf Galaxy Simulation*
August 2013: Contributed Talk, UCSC *Pressure of the Star Forming ISM*
October 2012: Lunch Talk, University of Wisconsin, Madison *Star Formation in N-body Dwarf Galaxy Simulations*
Summer 2012: Lunch Talk, University of Arizona *Star Formation in Dwarf Galaxies*

Honors, Awards & Grants

PI VIDA Postdoctoral Fellowship, Jan. 2017- Jan. 2020, (\$240,000)
Co-I HST Theory Grant [current] (\$84,000)
Co-PI NSF OU Physics REU Grant [2014,2015] (~\$267,000)
PI International Travel Grant, Fall 2015 (\$1,200)
Doxsey Thesis Prize Recipient, AAS Jan. 2014 (\$1,000)
PI Washington NASA Space Grant, Fall 2013 (\$10,000)
PI International Travel Grant, Winter 2013 (\$1,400)
NSF Graduate Research Fellowship, Honorable Mention, 2008-2009
PI ARCS Fellowship, 2008-2010 (\$15,000)
Chambliss Medal at AAS 2007

Refereed Publication List

- **Munshi, F.**; Brooks, A.; Teyssier, M. **Feedback-driven Radial Gradients in Dwarf Galaxies** MNRAS, in-preparation
- **Munshi, F.**; Brooks, A.; Governato, F.; Quinn, T.; Wadsley, J. **Going, Going, Gone Dark: The Scatter in the Faintest Dwarf Galaxies** MNRAS, submitted
- Christensen, Charlotte R.; Dave, R.; Governato, F.; Pontzen, A.; Brooks, A.; **Munshi, F.**; Quinn, T.; Wadsley, J. **In-N-Out: the gas cycle from dwarfs to spiral galaxies**; 2015,ApJ, in press
- Bellovary, J.; Holley-Bockelmann, K.; Gültekin, K.; Christensen, C.; Loebman, S.; **Munshi, F.** **Effects of Inclination on Measuring Velocity Dispersion and Implications for Black Holes**; 2014, MNRAS, 445, 2667B
- **Munshi, F.**; Governato, F.; Christensen, C.; Loebman, S.; Quinn, T.; Shen, S.; Wadsley, J. **The Pressure of the Star Forming ISM in Cosmological Simulations**; 2014, ApJL, 781, 14
- **Munshi, F.**; Brooks, A.; Governato, F.; Christensen, C.; Shen, S.; Loebman, S.; Moster, B.; Quinn, T.; Wadsley, J. **Reproducing the Stellar Mass/Halo Mass Relation in Simulated LCDM Galaxy Theory vs. Observational Estimates**; 2013, ApJ, 766, 56
- Davenport, J.; Becker, A.; West, A.; Bochanski, J.; Hawley, S.; Holtzmann, J.; Gunning, H.; Hilton, E.; **Munshi, F.**; Albright, M. **The Very Short Period M Dwarf Binary SDSS J001641-000925**; 2013, ApJ, 764, 62
- Suzuki, N.; Rubin, D.; Lidman, C.; Aldering, G.; Amanullah, R.; Barbary, K.; Barrientos, L. F.; [...] **Munshi, F.**, [...] Strovink, M.; Takahashi, N.; Tokita, K.; Wagner, M.; Wang, L.; Yasuda, N.; Yee, H. K. C.; Supernova Cosmology Project, **The Hubble Space Telescope Cluster Supernova Survey. V. Improving the Dark-energy Constraints above $z > 1$ and Building an Early-type-hosted Supernova Sample**; 2012, ApJ, 746, 85
- Dawson, K. S.; Aldering, G.; Amanullah, R.; Barbary, K.; Barrientos, L. F.; Brodwin, M.; Connolly, N. [...] **Munshi, F.**; Mullis, C.; Oda, T.; Panagia, N.; Perlmutter, S.; Postman, M.; Pritchard, T.; [...] Yee, H. K. C. **“An Intensive Hubble Space Telescope Survey for $z > 1$ Type Ia Supernovae by Targeting Galaxy Clusters”**, 2009, AJ, 138, 1271

Unrefereed Publication List

- Rosenfield, Philip; Loebman, S. R.; Hilton, E. J.; Garner, S.; Agol, E.; Bellovary, J. M.; Christensen, C. R.; Cowan, N. B.; Gogarten, S. M.; Haggard, D.; **Munshi, F. A.**; Schmidt, S. J.; Stilp, A. M.; Agueros, M. A.; Covey, K. R.; West, A. A.; Carroll, P.; Murphy, J., **“Tools for Increasing Undergraduate Diversity in Your Department”**, Astro2010 Decadal Survey Position Papers (no. 38)
- Norman, Dara; Ernst, David J.; Agueros, Marcel; Anderson, Scott F.; Baker, Andrew; Burgasser, Adam; Cruz, Kelle; Gawiser, Eric; Krishnamurthi, Anita; [...] Gogarten, Stephanie; Stilp, Adrienne; Christensen, Charlotte; Hilton, Eric; Haggard, Daryl; Loebman, Sarah; Rosenfield, Phil; **Munshi, Ferah**, **“Increasing the Number of Underrepresented Minorities in Astronomy Through K-12 Education and Public Outreach (Paper I and II)”**, Astro2010 Decadal Survey Position Papers (no. 39, 40)

Equity & Education Activities	UNIVERSITY OF OKLAHOMA REU COORDINATOR	Summer 2014, 2015
	UNIVERSITY OF OKLAHOMA ASTRO-PH DISCUSSION LEADER	Winter 2014-present
	PRE-MAJOR IN ASTRONOMY PROGRAM (PRE-MAP) RESEARCH MENTOR	Fall 2009, Winter 2010
	PRE-MAP COURSE INSTRUCTOR	Fall 2011
	PRE-MAP FIELD TRIP COORDINATOR	Spring 2011
	PRE-MAP MEETING SECRETARY	Fall 2010 – Spring 2010
	PRE-MAP DIVERSITY JOURNAL CLUB ORGANIZER	Winter 2013-Winter 2014
	UNIVERSITY OF WASHINGTON ASTRONOMY DEPARTMENT INTERNATIONAL YEAR OF ASTRONOMY EVENT ORGANIZER	Winter 2009-Spring 2009
Students Advised	TIM BERRY, TIM KRUSE	Fall 2009
	RYAN WESTERDAHL	Winter 2010
	DANNY WELLER	REU student, Summer 2014
	SYDNEY DUNCAN	REU student, Summer 2015
Collaborators	Alyson Brooks (Rutgers), Peter Behroozi (STScI), Jillian Bellovary (AMNH), Charlotte Christensen (Grinnell), Fabio Governato (UW), Sarah Loebman (UM), Piero Madau (UCSC), Ben Moster (MPIA), Tom Quinn [Thesis Adviser] (UW), Sijing Shen (IoA), Brian Siana (UCR), James Wadsley (McMaster), Dan Weisz (UCB), Kelly Holley-Bockleman (Vanderbilt)	
References	Assistant Professor Daniel Weisz UC Berkeley dweisz@uw.edu	
	Professor Thomas Quinn University of Washington trq@astro.washington.edu	
	Assistant Professor Alyson Brooks Rutgers University abrooks@physics.rutgers.edu	