

Katelin Schutz

CONTACT	kschutz@berkeley.edu	
EDUCATION	Ph.D. in Physics, Berkeley	May 2019
	Thesis Advisor: Hitoshi Murayama	
	GPA: 4.0/4.0	
	S.B. in Physics, MIT	June 2014
	Research Advisors: Max Tegmark, Alan Guth, David Kaiser, Tracy Slatyer	
	GPA: 4.9/5.0 (Phi Beta Kappa & Sigma Pi Sigma)	
	Physics GRE: 990/990	
HONORS AND AWARDS	Hertz Fellow , The Fannie and John Hertz Foundation	2014-2019
	NSF Graduate Research Fellow , The National Science Foundation	2014-2019
	Berkeley Fellow , UC Berkeley	2014-2017
	LeRoy Apker Award Finalist , American Physical Society	2014
	Barrett Astrophysics Prize , MIT Department of Physics	2014
	Orloff Award for Service , MIT Department of Physics	2013, 2014
	Lord Foundation Undergraduate Research Fellow , The Lord Foundation	2013
PUBLICATIONS	Primary contributor or equivalent (* indicates alphabetical authorship order):	
	14. Cora Dvorkin, Tongyan Lin, Katelin Schutz* (2018), <i>Cosmological Signatures of sub-MeV dark matter freeze-in</i> , in prep.	
	13. Yonit Hochberg, Eric Kuflik, Robert McGehee, Hitoshi Murayama, Katelin Schutz* (2018), <i>SIMPs through the axion portal</i> , arXiv:1806.10139.	
	12. Mark Vogelsberger, Jesús Zavala, Katelin Schutz , Tracy R. Slatyer (2018), <i>Evaporating the Milky Way halo and its satellites with inelastic self-interacting dark matter</i> , arXiv:1805.03203.	
	11. Katelin Schutz , Tongyan Lin, Benjamin R. Safdi, Chih-Liang Wu (2017), <i>Constraining a Thin Dark Matter Disk with Gaia</i> , accepted to Phys. Rev. Lett., arXiv: 1711.03103.	
	10. Katelin Schutz & Adrian Liu (2016), <i>Pulsar timing can constrain primordial black holes in the LIGO mass window</i> , Phys. Rev. D 95 023002, arXiv: 1610.04234.	
	9. Katelin Schutz* & Kathryn Zurek (2016), <i>On the Detectability of Light Dark Matter with Superfluid Helium</i> , Phys. Rev. Lett. 117 121302 (featured), arXiv: 1604.08206.	
	8. Daniele Bertolini, Katelin Schutz* , Mikhail Solon, and Kathryn Zurek (2016), <i>The Trispectrum in the Effective Field Theory of Large Scale Structure</i> , JCAP 052 1606, arXiv: 1604.01770.	
	7. Daniele Bertolini, Katelin Schutz* , Mikhail Solon, Jonathan Walsh, and Kathryn Zurek (2015), <i>Non-Gaussian Covariance of the Matter Power Spectrum in the Effective Field Theory of Large Scale Structure</i> , Phys. Rev. D 93 123505, arXiv: 1512.07630.	
	6. Katelin Schutz & Chung-Pei Ma (2015), <i>Constraints on Individual Supermassive Black Hole Binaries from Pulsar Timing Array Limits on Continuous Gravitational Waves</i> , MNRAS, 459 (2) 1737-1744, arXiv: 1510.08472.	
	5. Katelin Schutz* & Tracy R. Slatyer (2014), <i>Self-Scattering for Dark Matter with an Excited State</i> , JCAP 021 1501, arXiv: 1409.2867.	
	4. Katelin Schutz , Evangelos Sfakianakis, David Kaiser (2013), <i>Multifield Inflation after Planck: Isocurvature Modes from Nonminimal Couplings</i> , Phys. Rev. D 89 064044, arXiv: 1310.8285.	

Contributor from a large collaboration:

3. Haoxuan Zheng, Max Tegmark, et al. (2016), *Brute-Force Mapmaking with Compact Interferometers: A MITEoR Northern Sky Map from 128 MHz to 175 MHz*, MNRAS, **465** (3) 2901-2915, arXiv: 1605.03980.
2. Haoxuan Zheng, Max Tegmark, et al. (2014), *MITEoR: A Scalable Interferometer for Precision 21 cm Cosmology*, MNRAS **445** (2) 1084-1103, arXiv: 1405.5527.
1. Haoxuan Zheng, Max Tegmark, et al. (2013), *Mapping our Universe in 3D with MITEoR*, IEEE International Symposium on Phased Array Systems & Technology 784-791, arXiv: 1309.2639.

INVITED TALKS

13. Stanford Institute for Theoretical Physics Seminar Oct. 2018
12. University of Michigan Pheno Seminar Sept. 2018
11. UC Santa Cruz Institute for Particle Physics Seminar Apr. 2018
10. Brookhaven National Lab High Energy Theory Seminar Apr. 2018
9. Israeli Joint Particle Physics Seminar, Weizmann Institute Feb. 2018
8. University of Chicago Kavli Institute for Cosmological Physics Seminar Nov. 2017
7. Institute for Advanced Study astro-ph Coffee Nov. 2017
6. Princeton Pheno & Vino Seminar Nov. 2017
5. Lawrence Berkeley Lab Institute for Nuclear & Particle Astrophysics Seminar Nov. 2017
4. Caltech High Energy Physics Seminar May 2017
3. UC San Diego High Energy Theory Seminar Oct. 2016
2. Institut d'astrophysique de Paris Large Scale Structure Workshop May 2016
1. Caltech Theoretical Astrophysics Including Relativity & Cosmology Seminar Mar. 2016

INTERNAL TALKS

4. BCTP Tahoe Summit Sept. 2018
3. Berkeley-IPMU Week Workshop Jan. 2018
2. Berkeley Astronomy Department Lunch Seminar Series Feb. 2016
1. BCTP 4D Particle Physics Seminar Jan. 2016

CONFERENCE TALKS & PRESENTATIONS

5. TeVPA, Dark Matter Session (video abstract winner) Aug. 2017
4. American Physical Society April Meeting Jan. 2017
3. American Astronomical Society 227th Meeting Jan. 2016
2. American Astronomical Society 225th Meeting Jan. 2015
1. Institute for Nuclear and Particle Astrophysics and Cosmology Meeting Dec. 2014

POPULAR-LEVEL TALKS

4. Drive for the Nobel Prize Symposium, Berkeley CA Nov. 2017
3. Grounds for Science Cafe, Berkeley CA Oct. 2017
2. Homefarm Eclipse Campground, Terrebonne OR Aug. 2017
1. Dovetail Artist Collective, San Francisco CA Nov. 2016

TEACHING

- Grader, Quantum Mechanics I Spring 2014
Grader, Classical Mechanics III Fall 2013
Teaching Assistant, Electricity & Magnetism Spring 2013

PROFESSIONAL ACTIVITIES	Journal Referee	Feb. 2016 - Present
	Physical Review D, Physical Review Letters	
	Theoretical Advanced Study Institute (TASI)	Jun. 2016
	Attended summer school in theoretical particle physics at CU Boulder, with the theme “Anticipating the Next Discoveries in Particle Physics”	
COMMUNITY	Organizer, Berkeley 4D Particle Physics Seminar	Jan. 2018 - Present
	Facilitator, Berkeley “Respect is Part of Research” Workshop	Aug. 2015 - Aug. 2017
	Coordinator, Berkeley Graduate Poster Session	Oct. 2014
	Coordinator, Berkeley Physics Social Hour	Aug. 2014 - Aug. 2015
	President, MIT Society of Physics Students	May 2013 - May 2014
	Vice President, MIT Society of Physics Students	May 2012 - May 2013
	Treasurer, MIT Society of Physics Students	May 2011 - May 2012
	Head Coordinator, MIT Physics Pre-Orientation Program	Aug. 2012 and Aug. 2013
President, MIT Undergraduate Women in Physics	Jan. 2012 - May 2013	