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EDUCATION AND ACADEMIC POSITIONS

UC Santa Barbara	2016–present	KITP and Hubble Fellow
	2015–2016	Postdoc
Harvard	2014–2015	ITC Fellow
UC Berkeley	2008–2014	Graduate Student
		· 2014: <i>Ph.D. astrophysics</i> · 2010: <i>M.A. astrophysics</i> · advisor: <i>Eliot Quataert</i>
Stanford University	2005–2008	Undergraduate Student
		· 2008: <i>B.S. physics</i> · concentration in <i>theoretical physics</i> · advisor: <i>Roger Blandford</i>

AWARDS

UC Berkeley	April 2014	Mary Elizabeth Uhl Prize
	May 2012	Robert J. Trumpler Graduate Student Excellence Award
Stanford University	Fall 2007	Nomination for the Churchill Scholarship
	Summer 2006	VPUE Grant for Undergraduate Research
Rose Hills Foundation	Summer 2007	Rose Hills Award for Undergraduate Research

PROFESSIONAL SERVICE

- Co-instituted and co-organized a new lunch talk series at UCSB
- Organizer (“Mentor Master”) for the UC Berkeley Astronomy Department peer-mentoring system.
- Referee for the *Astrophysical Journal* (and *ApJ Letters*), *MNRAS* (and *MNRAS Letters*), *Astrophysics and Space Science*, *Journal of Fluid Mechanics*, and *Nature Letters*.
- Author of several open-source emacs packages, including a popular [major mode](#) for editing gnuplot scripts and a [browser](#) for fetching BibTeX entries from ADS. Both are available in the [MELPA](#) package repository

FUNDING PROPOSALS

* denotes proposals
where I was a Co-I

	grant	award (\$k)	year
5	HST THEORY GRANT	120	2018
4*	ATP THEORY GRANT	642	2017
3	ATP THEORY GRANT	410	2017
2	HUBBLE FELLOWSHIP	350	2015
1	CHANDRA THEORY GRANT	60	2011
	<i>total:</i>	1582	

COMPUTING GRANTS

most of these
proposals are
collaborative; this list
includes only grants
where I was a
primary author

	agency	award ($\times 10^6$ hour)	value (\$k)	year
8	NSF	5.6	23	2017
7	NSF	1.6	55	2016
6	NSF	1.2	40	2016
5	NSF	0.6	20	2015
4	NSF	3.2	110	2015
3	NASA	4.7	100	2015
2	NSF	2.6	89	2014
1	NASA	2.4	75	2014
	<i>total:</i>	21.9	512	

OBSERVING PROPOSALS

	facility	award (hours)	year
4	VLA	6.0	2017
3	GEMINI	1.0	2016
2	VLA	4.0	2015
1	VLA	6.0	2014

TEACHING EXPERIENCE

UC Santa Barbara	2017	Organized and taught a fluid dynamics “bootcamp” for graduate students
	2016–present	Supervising undergraduate research · will soon result in two student-led publications
UC Berkeley	2008–2009	Graduate Student Instructor
Stanford University	2008	Undergraduate Instructor · co-designed and taught a course on numerical methods (Physics 90SI) under the student-initiated course program.

SELECTED PRESENTATIONS

29. <i>Invited Talk</i> , What matter(s) around galaxies	June 2017
28. <i>Lunch Talk</i> , UC Santa Barbara	March 2017
27. <i>Contributed Talk</i> , Hubble Fellow Symposium	March 2017
26. <i>Astronomy Colloquium</i> , University of Washington	February 2017
25. <i>MPS Seminar</i> , UC Santa Cruz	October 2016
24. <i>Invited Talk</i> , Fellows at the Frontier Conference	September 2016
23. <i>Invited Talk</i> , Theory & Computation in the ICM	August 2016
22. <i>Seminar</i> , Cold Universe Workshop	June 2016
21. <i>Astronomy Seminar</i> , UCSB	April 2016
20. <i>Lunch Talk</i> , Harvard ITC	April 2015
19. <i>Pizza Lunch</i> , Harvard ITC	April 2015
18. <i>Lunch Talk</i> , UCSB	April 2015
17. <i>Lunch Talk</i> , UC Berkeley	March 2015
16. <i>Contributed Talk</i> , Black Holes in Dense Star Clusters	January 2015
15. <i>Cosmology Seminar</i> , Yale	September 2014
14. <i>CIERA Astrophysics Seminar</i> , Northwestern	September 2014
13. <i>Lunch Talk</i> , UC Berkeley	February 2014
12. <i>TAPIR Seminar</i> , Caltech	October 2013
11. <i>KIPAC “Tea-Talk” Seminar</i> , Stanford	October 2013
10. <i>ITC Seminar</i> , Harvard CfA	September 2013
9. <i>Geo- and Astro-physical Fluid Dynamics Seminar</i> , UCSC	April 2013
8. <i>Invited Talk</i> , SnowCluster conference	March 2013
7. <i>Astrophysics Seminar</i> , UCSB	October 2012
6. <i>Theory Seminar</i> , CITA	October 2012
5. <i>Informal Astrophysics Seminar</i> , Princeton IAS	October 2012
4. <i>Invited Talk</i> , Theory & Computation in the ICM	August 2012
3. <i>KITP Theory Lunch talk</i> , UCSB	April 2011
2. <i>Contributed Talk</i> , Theory & Computation in the ICM	August 2010
1. <i>KIPAC “Tea-Talk” Seminar</i> , Stanford	August 2006

USELESS AND UNUSUAL SKILLS

- *building wooden boats and furniture*
- *designing and building lightweight camping gear*
- *growing heirloom tomatoes and peppers in hostile climates*
- *onetime holder of a federal pyrotechnics permit*

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