

# adinafeinstein

## contact

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## GPA

Major GPA: 3.71/4.0  
Overall GPA: 3.23/4.0

## programming

Python, Mathematica  
Astropy, SpeXTool,  
ImageJ, & Jupyter  
Notebook

## education

- 2018-2019 **M.S. Physics** University of Chicago, Chicago, IL  
*Thesis: TBD*
- 2014-2018 **B.Sc. Major in Astrophysics** Tufts University, Medford, MA  
Minor in English  
*Senior Honors Thesis: Exploring the Low and High Mass Extremes in the Distant Universe*

## research

- 05/15-05/18 **Professor Danilo Marchesini** Tufts University, Medford, MA  
Research Assistant  
- Constructed catalogs of gravitational lensing magnifications using publicly available lensing models for Hubble Frontier Fields (HFF) cluster pointings  
- Calculated systematic and random errors on magnification factors  
- Studied evolution of high mass ( $M/M_{\text{Sun}} \geq 10^{11}$ ) high redshift ( $2 \leq z \leq 6$ ) galaxies in the UltraVISTA Survey
- 05-09 2017 **Dr. Joshua Schlieder** NASA GSFC, Greenbelt, MD  
Summer Research Intern  
- Characterized & determined ages of red dwarfs in the solar neighborhood via SpeX spectra on NASA IRTF  
- Conducted 4 half nights of remote observing using SpeX on NASA IRTF  
- Obtained basic planet parameters from stellar spectra and Kepler/K2 light curve data
- 09/15-09/16 **Amanda Franklin, Graduate Student** Tufts University, Medford, MA  
Research Assistant, Lewis Lab  
- Created multispectral images and conducted batch analyses, using ImageJ, to gauge camouflage success for fireflies and stomatopods
- 05-09 2013 **Professor Phil Arras** University of Virginia, Charlottesville, VA  
Summer Research Intern  
- Evaluated the effect of planet mass, radius, and semi-major axis on planet rotation periods within the habitable zone of low-mass stars using FORTRAN
- 05-09 2012 **Professor Jonathan Lunine** Cornell University, Ithaca, NY  
Summer Research Intern  
- Studied the effects of a cold host star on a Venus-like (carbon dioxide rich) atmosphere

## teaching

Spring 2018	<b>WGSS85 - Universe: Illuminated by Women</b> Teaching Assistant <i>Course on the role of women in astronomy throughout history</i>	Tufts University, Medford, MA
Spring 2017	<b>AST09 - Concept of the Cosmos</b> Teaching Assistant <i>Introductory level astronomy course</i>	Tufts University, Medford, MA
Fall 2016	<b>AST31 - Stellar Structure &amp; Evolution</b> Teaching Assistant <i>Upper level astronomy course</i>	Tufts University, Medford, MA

## publications & talks

06/18	<b>A TESS Dress Rehearsal: Planetary Candidates and Variables from K2 Campaign 17</b> Crossfield, I. J. M., Guerrero, N., David, T., et al. 2018 AJ, submitted <a href="https://arxiv.org/abs/1806.03127">https://arxiv.org/abs/1806.03127</a>	
06/18	<b>Planetary Candidates from K2 Campaign 16</b> Yu, L., Crossfield, I. J. M., Schlieder, J. E., et al. 2018 AJ, 156, 22 <a href="https://arxiv.org/abs/1803.04091">https://arxiv.org/abs/1803.04091</a>	
01/09/18	<b>The 231st American Astronomical Society Meeting</b> Presented results from Ciardi et al., 2018 <i>Session 104. Detection of Extrasolar Planets I</i>	Washington, D.C.
01/18	<b>HFF-Deepspace photometric catalogs of the twelve Hubble Frontier Fields , clusters, and parallels: Photometry, photometric redshifts, and stellar masses</b> Shipley, H., Lange-Vagle, D., Marchesini, D., et al. 2018 ApJS, accepted <a href="https://arxiv.org/abs/1801.09734">https://arxiv.org/abs/1801.09734</a>	
01/18	<b>K2-136: A binary system in the Hyades open cluster hosting a Neptune-sized planet</b> Ciardi, D. R., Crossfield, I. J. M., Feinstein, A. D., et al. 2018, AJ, 155, 10 <a href="https://arxiv.org/abs/1709.10398v2">https://arxiv.org/abs/1709.10398v2</a>	
10/30/17	<b>Heard Mentality (WMFO)</b> Spoke about my work at NASA GSFC & about how to find planets <i>Tufts University Radio Show</i>	Medford, MA
08/03/17	<b>2017 NASA GSFC Summer Intern Poster Session</b> Poster presentation on summer research from NASA GSFC	Greenbelt, MD
07/27/17	<b>The 4th AstroCon DC Meeting</b> Poster presentation on summer research from NASA GSFC	George Washington University, D.C.

## leadership

09/16 - Today	<b>Tufts Society of Physics Students</b> President (Current) Events Coordinator (09/16-05/17)	Tufts University, Medford, MA
09/15 - Today	<b>Tufts University Quidditch Team</b> Head of Fundraising (Current) Social Media/PR (09/15-05/17)	Tufts University, Medford, MA

## honors & awards

05/16      **Massachusetts Space Grant Consortium**  
Summer funding

01/16-05/17      **Dean's List**  
Spring 2016, Fall 2016, & Spring 2017

Tufts University, Medford, MA