

Curriculum Vitae

ALEX FITTS

Mailing Address: *Department of Astronomy, University of Texas at Austin, Austin, TX 78712*

Phone: (617) 462-1816

Email: fitts.alex@gmail.com

Education

- **University of Texas at Austin**—Austin, TX (2015-Present)
Ph.D. Candidate since April, 2016
 - Projected Ph.D. Date: May, 2018
- **University of Maryland**—College Park, MD (2012-2015)
Masters degree in Astrophysics, May 2014
- **University of Connecticut Storrs**—Storrs, CT (2008-2012)
Honors B.S. degree in Physics, cum laude, May 2012

Experience

- **University of Texas at Austin**—Austin, TX
Graduate Student, Advisor: Mike Boylan-Kolchin: May 2015–present
 - Currently simulating cosmological zoom-in simulations of dwarf galaxies in an attempt to address the small scale issues of Λ CDM
- **University of Maryland**—College Park, MD
Graduate Student, Advisor: Mike Boylan-Kolchin: May 2012–2014
 - Completed 2nd Year Project: *A resolution and parameter space study of low frequency oscillations in 3D global accretion disk simulations.*
- **Harvard-Smithsonian Center for Astrophysics**—Cambridge, MA
Visiting Student, worked under Vasili Kharchenko: June 2011–March 2012
 - Created a spatial distribution computer model of a cometary atmosphere for my Senior Thesis. Explored how photo-desorption directly affects the production rate of certain mother molecules.
- **Phillip Gould's UCONN Lab**—Storrs, CT
Undergrad research: February, 2010–June, 2011
 - Actively mode-locked a semiconductor laser diode through RF modulation of the laser diode's drive current. Our goal was to create a pulsed laser with pico-second long pulses.

Skills

- **Computer Languages and Programs:**
 - Proficient in C, Python, \LaTeX , Mathematica, MPI, OpenMP
 - Familiar with MatLab, Origin, CAD

Selected Achievements and Activities

- Invited to attend the International High Performance Computing Summer School in Solvenia in June 2016
- Recognized as a Distinguished Graduate Student Teacher 2013-2014
- UCONN Honor's Program, including a Senior Thesis detailing my cometary model
- Inducted into the Physics Honors Society in Spring 2011.
- Member of the American Astronomical Society and the American Physical Society