

Sierra L. Grant

725 Commonwealth Ave. – Boston, MA 02215 – United States
 sierrag [at] bu.edu • www.sierragrants.com

Education

Boston University <i>PhD</i> Advisor: Catherine C. Espaillat	Boston, MA <i>Current</i>
Boston University <i>Master of Arts</i> Advisor: Catherine C. Espaillat	Boston, MA 09/2015–05/2017
University of Michigan <i>B.S. Astronomy & Astrophysics and B.S. Interdisciplinary Physics</i> Advisor: Nuria P. Calvet	Ann Arbor, MI 09/2011–05/2015

Research Interests

My research focuses on the evolution of protoplanetary disks, the disks of gas and dust that form around young stars. As these disks evolve they may form planetary systems and I'm interested in characterizing that evolution and what that means for growing planets.

Honors and Awards

Fall 2015 Dean's Fellowship
 Fall 2011, 2013, University Honors
 & Spring 2014

Presentations

12/2018	Star and Planet Formation Lunch Talk, Amherst, MA – Invited Talk
07/2018	Cool Stars 20, Boston, MA – Poster
01/2018	The 4th MA-CT Regional Star Formation Meeting, Boston, MA – Contributed Talk
12/2017	Boston Area Exoplanet Science Meeting, Cambridge, MA – Contributed Talk
01/2017	Regional Star Formation Meeting, New Haven, CT – Contributed Talk
06/2015	Frontiers in Star Formation: Celebrating Contributions to the Field by Nuria Calvet and Lee Hartmann, Ann Arbor, MI – Invited Talk
01/2015	225th American Astronomical Society Meeting, Seattle, WA – Poster
02/2014	Scientista Symposium, Massachusetts Institute of Technology, Cambridge, MA – Poster
04/2013, 04/2014, & 04/2015	Undergraduate Research Presentation, University of Michigan, Ann Arbor, MI – Poster

Publications

- 01/2019 *"Exploring the Connection Between the High-Energy Radiation Fields of T Tauri Stars and Gas in the Innermost Disk"*
C. C. Espaillat, C. Robinson, **S. Grant**, M. Reynolds
Submitted to ApJ
- 08/2018 *"Herschel Observations of Protoplanetary Disks in Lynds 1641"*
Sierra L. Grant, Catherine C. Espaillat, S. Thomas Megeath,
Nuria Calvet, William J. Fischer, Christopher J. Miller,
Kyoung Hee Kim, Amelia M. Stutz, Álvaro Ribas, Connor E. Robinson
ApJ, 863, 13
- 03/2014 *"A Month of Personal Transformation at Kitt Peak"*
Sierra L. Grant
NOAO Newsletter, Issue 109, March 2014

Accepted Observing Proposals

- 11/2018,
01/2018,
& 11/2017
10/2017 Discovery Channel Telescope, Lowell Observatory (10 half-nights)
"Probing Gas and Dust in the Sites of Planet Formation"
Sierra Grant, Catherine Espaillat
Hubble Space Telescope (6 orbits) & *Chandra X-ray Observatory* (35ks) &
VLA (9.6 hours)
"Connecting Mass Accretion and Ejection in Pre-main Sequence Stars"
Catherine Espaillat, Jesús Hernández, **Sierra Grant**, Enríque Macías,
Mark Reynolds, Connor Robinson
- 10/2015 *Spitzer Space Telescope* (Proposal ID #12036)
"Footprints of the Magnetosphere: the Star-Disk Connection in T Tauri
Stars"
Catherine Espaillat, **Sierra Grant**, Jesus Hernandez, Nuria Calvet
Coordinated with the *Hubble Space Telescope* and the The Neil Gehrels
Swift Observatory for simultaneous observations

Workshops

- 12/2017 JWST Proposal Planning Workshop, Pasadena, CA
03/2016 NRAO Live! ALMA Proposal Workshop at Boston University, Boston, MA

Teaching

- Spring 2016 AS 203: Principles of Astronomy II Teaching Assistant

Affiliations and Outreach

- 09/2018 – Current Letters to a Pre-Scientist Pen Pal
09/2015 – Current Boston University Astronomy Public Open Nights
09/2011 – 05/2015 Student Astronomical Society
09/2011 – 05/2012 Douglass Houghton Scholars Program
09/2011 – 05/2012 Women in Science and Engineering Residency Program
06/2010 Michigan Technological University Women in Engineering Program

Mentored Students

Caleb Scott-Joseph (06/2018 – Current): Caleb is a high school student at Boston University Academy who I am mentoring to analyze high-resolution, near-infrared spectra of protoplanetary disks.

Leadership

09/2018 – Current

Graduate Student Representative