Samantha Scibelli

1001 W. St. Mary's Rd APT 925, Tucson, AZ 85745 (518) 859-1566\ sscibelli@email.ariziona.edu samantha.scibelli@gmail.com

Ph.D Student, University of Arizona, Tucson AZ EDUCATION:

Stony Brook University, Stony Brook, NY

Women in Science and Engineering (WISE) Scholar Bachelors of Science, Physics, second major Astronomy

Graduation: January 21, 2017 GPA: 3.71/4.00 (Magna Cum Laude)

Study Abroad, Rome, Italy, Summer 2014

COMPUTER SKILLS:

Python, IRAF, Ds9, LaTex, Gnuplot, HTML, Mathematica, Fortran, C++

RESEARCH:

NASA Jet Propulsion Laboratory (JPL), Astrophysics Department

NASA UI Intern Jan 2017 - May 2017

Awarded \$9,600 Sally Ride Fellowship to return to JPL to begin a project on star formation

Harvard-Smithsonian Center for Astrophysics

Cambridge, MA

Pasadena, CA

Anticipated Graduation: 22'

NSF REU Intern

June 2016 - Aug 2016

Awarded \$5,000 stipend to work as an undergraduate research intern probing infrared dark clouds in the Inner Milky Way

NASA Jet Propulsion Laboratory (JPL), Astrophysics Department

Pasadena, CA

NASA UI Intern

Aug 2015 – Dec 2015

Awarded \$9,600 stipend to work as an intern analyzing and modeling jet streams ejected from a dying sunlike star

Stony Brook University, Physics and Astronomy Department

Stony Brook, NY

Undergraduate Researcher

Dec 2014 - Jan 2017

Constructed project modeling the kinematics and gravitational lensing properties of spiral galaxies

Exploration in STEM Researcher

June 2015 – Aug 2015

Awarded \$4,000 grant to continue gravitational lensing research during the summer

Stony Brook University, Laser Teaching Center

Stony Brook, NY

Undergraduate Researcher

Feb 2014 - May 2014

Conducted an instructional research project demonstrating gravitational lensing using a wine glass

Summer Research Intern

July 2013 – Aug 2013

Given \$4,000 stipend to study the evolution of caustic patterns formed by evaporating water droplets

Rensselaer Polytechnic Institute, Physics and Astronomy Department

Troy, NY

Visiting Student Researcher

Nov 2010 - Aug 2014

- Analyzed over 10,000 spectra by eye in the Sloan Digital Sky Survey
- Awarded a scholarship of \$7,500 as an INTEL Science Talent Search 2013 finalist

Publications:

[1] Sahai, R., Scibelli, S., & Morris, M. R. High-speed Bullet Ejections during the AGB-to-Planetary Nebular Transition: HST Observations of the Carbon Star, V Hydrae, 2016, ApJ, 827, 92.

[2] Scibelli, S., Newberg, H. J., Carlin, J.L., & Yanny, B. Census of Blue Stars in SDSS DR8, 2015, VizieR Online Data Catalog, 221

[3] Scibelli, S., Newberg, H. J., Carlin, J.L., & Yanny, B. Census of Blue Stars in SDSS DR8, 2014, ApJS, 215, 24

In Preparation:

Scibelli, S., Sahai, R., Morris, M.R. Modeling the High-Velocity Bullets From V Hya, 2018

In the Press:

"Hubble Detects Giant 'Cannonballs' Shooting from Star"

Link: http://www.jpl.nasa.gov/news/news.php?feature=6639

"Getting Girls Involved in Science"

Link: http://blogs.intel.com/csr/2013/03/getting-girls-involved-in-science/

Talks:

"Physical Properties of Free-Floating Evaporating Gas Globules (FrEGGs) in the W5 Star Forming Region" The 33rd Annual New Mexico Symposium, NRAO, Socorro, NM, November 2017

"A Detailed Analysis of the Physical Conditions in the Infrared Dark Clouds in the Region IGGC 16/23" SAO Astronomy Summer Research Symposium, Center for Astrophysics, Cambridge, MA, August 2016

"Using HST/STIS data to Model High-Velocity Bullets from a Dying Star" Special Astrophysics Seminar, Jet Propulsion Laboratory, Pasadena, CA, December 2015

"The Natural Focusing of Light"

Physics and Nature Conference, Pace University, White Plains, NY, November 2013

Poster Presentations:

"A Detailed Analysis of the Physical Conditions in the Infrared Dark Clouds in the Region IGGC 16/23"
American Astronomical Society Meeting, Grapevine, TX, January 2017

"Using HST/STIS data to Model High-Velocity Bullets from a Dying Star"

Undergraduate Research and Creative Activities (URECA) Symposium, Stony Brook, May 2016

"Probing Dark Matter by Modeling Gravitational Lensing of Spiral Galaxies"

CUWiP Women in Physics Conference, Wesleyan University, CT, January 2016

Exploration in STEM Symposium, Stony Brook University, Stony Brook, NY, August 2015

Undergraduate Research and Creative Activities (URECA) Symposium, Stony Brook, April 2015

"Optical Demonstration of Gravitational Lensing"

Undergraduate Research and Creative Activities (URECA) Symposium, Stony Brook, April 2014

"A Study of Evolving Caustics Formed by Evaporating Water Droplets"

Frontiers in Optics, OSA Annual Meeting and Exhibit/Laser Science XXIX, Orlando, FL, October 2013 Symposium for Summer Research, Stony Brook University, Stony Brook, NY, August 2013

"Census of Blue Stars in the SDSS"

American Astronomical Society Meeting, Long Beach, CA, January 2013

New York Astronomical Society meeting, Stony Brook University, Stony Brook, NY, Spring 2012

New York Astronomical Society meeting, Skidmore College, Saratoga, NY, Fall 2011

AWARDS AND

HONORS:

National Science Foundation Graduate Student fellowship (NSF GRF)

March 2017

One of the selected number of incoming graduate students to receive this award

Sigma Pi Sigma Physics Honor Society, Stony Brook University

April 2016

• Inducted through nomination by a faculty member for outstanding scholarship in physics

Researcher of the Month, Stony Brook University

Sep 2015

• Recognition of outstanding research in undergraduate research

National Runner-Up and Regional Winner for the NCWIT Award for Aspirations in Computing May 2013

INTEL STS Finalist March 2013

• One of 40 finalists in the INTEL Science Talent Search National Competition

| | National NASA WISH Scholar • Attended an aerospace summer camp at Johnson Space Center, Houston, Texas | June 2012 |
|-------------------------------|--|--------------------|
| | Winner of the Northeastern US Astrobiology Short Story Contest | March 2012 |
| | Regional Hessberg Advanced Astronomy Campership Winner • Awarded a scholarship to attend the Advanced Astronomy Camp in Tucson, Arizona | June 2011 |
| MENTORING AND OUTREACH: | TechPrep Mentor, Stony Brook University Employed as a STEM summer camp counselor for middle school girls | June-July 2015 |
| | Volunteer as Mystery Women for Explore Your Opportunities (EYO) Conference Educated 7th grade girls about STEM through interactive learning techniques | April 2014/2015 |
| ADDITIONAL EXPERIENCES | CUWiP Meeting Participant/Poster Presenter, Rutgers University and Wesleyan University • Attended conference for undergraduate women in physics | Jan 2015/2016 |
| | Astronomy Club, Stony Brook University • Attend weekly meetings and participate in educational trips (e.g. Northeast Astronomy Fo | 2013-2016 orum) |
| | Sigma Beta Honor Society, Stony Brook University Participant in community service programs throughout the year | 2013-2016 |
| | Deans List, Stony Brook University | 2013-2016 |
| | Field Hockey Club Team, Stony Brook University • Attend weekly practices and weekend games | 2014-2015 |