

Maria Babakhanyan Stone

mbston@utu.fi • +1-814-531-5055 • astronomygo.com

EDUCATION

Ph.D., Astronomy, University of Turku, Finland, August 2017 - *presently enrolled*
Thesis topic: Active galactic nuclei, host galaxies, and their environments
Advisor Dr. Jari K. Kotilainen

MS Physics & MA French, San José State University (SJSU), USA, 2017
Thesis: Comparative Study of Broadband Photometry Relations for Ultra-Diffuse and Normal Galaxies in the Coma Cluster
Advisor Dr. Aaron J. Romanowsky

PUBLICATIONS

Team Publications as Contributing Author

"Origins of ultra-diffuse galaxies in the Coma cluster - I. Constraints from velocity phase-space", Adebusola Alabi, *et al.*, 2018, MNRAS, *submitted*, [arXiv:1801.09686](https://arxiv.org/abs/1801.09686)

"Origins of ultra-diffuse galaxies in the Coma cluster - II. Constraints from their stellar populations", Anna Ferre-Mateu, *et al.*, 2018, MNRAS, *submitted*, [arXiv:1801.09695](https://arxiv.org/abs/1801.09695)

TELESCOPE PROPOSALS AWARDED

Nordic Optical Telescope, P57-002, *Co-investigator* M. Stone, P.I. D. Bettoni, Recent star formation and nuclear activity of low redshift quasars.

PRESENTATIONS, POSTERS

Astro-ph journal club presentation, Tuorla Observatory, Finland, 2018

Invited Presentation, Konkoly Observatory, Hungary, 2017

Seminar, Fundación Galileo Galilei - INAF, Fundación Canaria, Spain, 2017

Astro-ph journal club presentation, Tuorla Observatory, Finland, 2017

Posters at Physics Days 2018 (Finland), SJSU College of Science Student Research Day 2017 (USA), AAS 229 2017 (USA), PHYSCON 2016 (USA)

TECHNICAL EXPERIENCE

Observing with the Nordic Optical Telescope, La Palma, Spain.

Near-infrared spectroscopy with NOTCam, P57-008, P.I. J. Kotilainen, 3 nights, 2018.
ISM properties of the most luminous quasars at $3 < z < 4$.

Spectroscopy with ALFOSC, P56-018, P.I. D. Bettoni, 3 nights, 2017. Recent star formation and nuclear activity of low redshift quasars.

Observations with ALFOSC and NOTCam, 2 nights, 2017. Intensive remote observing school at the Tuorla Observatory, [NOT course 2017](#).

Target of Opportunity Observer

Stancam, GRB 180418A, P57-505, P.I. P. Jakobsson, Building the Sample of Swift Gamma-Ray Bursts, [GCN Circular 22660](#).

ALFOSC, GRB 171020A, P51-504, P.I. P. Jakobsson, Building the Sample of Swift Gamma-Ray Bursts, [GCN Circular 22029](#).

Software

Python, Astropy, DS9, IRAF, Illustris, python-FSPS, AstroML, SuperMongo, QFitsView, ESO pipelines, Starlink-Gaia, LaTeX, UNIX Bash Shell, R, HTML, SExtractor, GALFIT, MS Office, Data Science & Machine Learning Tools, Linux

AWARDS

Grant for PhD Research, Dr. Jari Kotilainen (ESO), 2018

NOT Observing Travel Award, University of Turku, Finland, 2017

Fixed-Term Funding, University of Turku, Finland, 2017

2nd Century Initiative Fellowship, Georgia State University, 2017 (Declined)

Webber Voyager Fellowship, New Mexico State University, 2017 (Declined)

Eugene Cota Robles Fellowship, University of California Merced, 2017 (Declined)

Graduate Student Assistantship, West Virginia University, 2017 (Declined)

Recognition in a Commendation for Internship Work at NASA, 2016

Graduate Equity Fellowship, SJSU, 2016

Scholarship for Academic Excellence in Physics, SJSU, 2016

Scholarship, PyCon Conference 2016

Fund for Excellence in Graduate Recruitment Fellowship, PSU, 2010

Green Lake workshop, travel stipend, 2010

Astrobiology Conf (AbSciCon 2010), travel stipend, 2010

SJSU Scholars in Science Scholarship, 2009

Honorarium, AbSciCon Astrobiology Conf, SETI Inst, NASA, and SJSU, 2008

Distinction Award, National Astronomy Competition, Armenia, 2000

STUDY ABROAD

Sorbonne (Paris IV) and Marie Curie (Paris VI) Universities, France, 2013-14

China in Winter program participant, SJSU and Chinese Embassy, winter 2010

RESEARCH & TEACHING EXPERIENCE

Lead Intern, NASA Armstrong Flight Research Center, Edwards, CA, 2017

Teaching, laboratory courses in Physics and Biology, SJSU, 2008, 2015-2017

Aero Institute, NASA Armstrong Flight Research Center, Edwards, CA, 2016

Intern, NASA Armstrong Flight Research Center, Edwards, CA, Summer 2016

Research Assistant, San Jose Research Foundation, January 2016 - April 2016

Research Assistant, Geomicrobiology Lab, Dr. Jenn Macalady, PSU, 2010-11

Research Student Assistant, Microbiology Laboratory, Elaine Bryant, SJSU, 2009-10

Lab Assistant, Dr. Adrian Rodriguez, Nuclear Science Laboratory, SJSU, 2006-07

LANGUAGES

Fluent in English, French, Russian, and Armenian