

GAGANDEEP S. ANAND

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EDUCATION

- Institute for Astronomy, University of Hawai'i at Manoa** *Expected- June 2021*
PhD in Astronomy
Advisor: Professor R. Brent Tully
- Institute for Astronomy, University of Hawai'i at Manoa** *December 2018*
M.S. in Astronomy
- Boston University** *May 2017*
M.A. in Astronomy
- Vassar College** *May 2015*
B.A. in Physics & Astronomy, Minor in Mathematics

RESEARCH EXPERIENCE

- University of Hawai'i at Manoa** *August 2017–Present*
Professor R. Brent Tully
- Studying the resolved stellar populations of nearby galaxies with Hubble Space Telescope imaging
 - Determining distances to galaxies using stars near the tip of the red giant branch
- W.M. Keck Observatory** *July 2017–August 2017*
Dr. Luca Rizzi
- Enhanced the pipeline for photometric analysis of imaging data from the Hubble Space Telescope
- Boston University** *July 2015–May 2017*
Professor Elizabeth Blanton
- Examined bent radio galaxies to study the physics of the intracluster medium and to find high-redshift galaxy clusters
- Vassar College** *Sept. 2011–May 2015*
Professor Fred Chromey
- Collected and reduced spectra and CCD images for various research projects using the 0.8m campus telescope
 - Used Physics Of Eclipsing Binaries (PHOEBE) 2.0 to model contact binaries and hierarchical star systems
- Colby College** *May 2014–Aug. 2014*
Professor Elizabeth McGrath
- Made use of CANDELS data to analyze progenitor galaxies to today's massive quiescent population

TEACHING EXPERIENCE

- Department of Astronomy** *Sept. 2015 –May 2017*
Teaching Fellow *Boston University*
- Astronomy 105- Alien Worlds (Spring 2016)
 - Astronomy 109- Cosmology (Fall 2015/Fall 2016)
 - Astronomy 203- Principles of Astronomy II (Spring 2017)

- Astronomy 101- Solar System Astronomy (Fall 2014)
- Astronomy 105- Stars, Galaxies, & Cosmology (Spring 2015)

ACCEPTED PROPOSALS

A *Swift* Look at the COBRA Sample: Confirming Clusters found via Bent Radio AGN

Swift X-ray Telescope, 190.1 ks (2017a), Co-Investigator

REFEREED PUBLICATIONS

Abell 623: Home to a Merger Induced Wide-Angle Tail Radio Source?

Anand, G., Blanton, E. L., Douglass, E., Randall, S. W., & Paterno-Mahler, R., *In Preparation*

CANDELS: The Prevalence of Massive Quiescent Disks in the Early Universe

McGrath, E.J, [4 authors], *Anand, G.*, [11 authors], *In Preparation*

Peculiar Velocities of Galaxies Just Beyond the Local Group

Anand, G., Tully, R. B., Rizzi, L., Shaya, E., & Karachentsev, I. D., *ApJ*, Submitted

The Distance and Motion of the Maffei Group

Anand, G., Tully, R. B., Rizzi, L., & Karachentsev, I. D., *ApJL*, 2019

A Robust Tip of the Red Giant Branch Distance to the Fireworks Galaxy (NGC 6946)

Anand, G., Rizzi, L., & Tully, R. B., *AJ*, 2018

The Distance to the Galaxy Coma P

Anand, G., Tully, R. B., Karachentsev, I. D., Makarov, D. I., Makarova, L.; Rizzi, L.; Shaya, E. J., *ApJL*, 2018

The High-Redshift Clusters Occupied by Bent Radio AGN (COBRA) Survey

Paterno-Mahler, R., Blanton, E. L., Ashby, M. L. N., Brodwin, M., Wing, J. D., Decker, B., Golden-Marx, E., 2016, & *Anand, G.*, *ApJ*, 2017

CONFERENCE POSTERS & *TALKS

Tip of the Red Giant Branch Distances to Nearby Galaxies

Stars: Birth and Death (GMT Community Science Meeting)- September 2018

The 21st Century HR Diagram (Space Telescope Science Institute)- April 2018

Chandra Observation of the WAT Radio Source/ICM Interaction in Abell 623

229th Meeting of the American Astronomical Society- January 2017

Chandra Science for the Next Decade- August 2016

Exploring the Structural Evolution of Massive Quiescent Galaxies

*Keck Northeast Astronomy Consortium- November 2014

*Colby Undergraduate Summer Research Retreat- July 2014

Observations and Analysis of Orbital Period Changes in Contact Binaries

*Keck Northeast Astronomy Consortium- October 2013

Vassar Undergraduate Research Summer Institute- July 2013

HONORS/AWARDS

Departmental Honors in Astronomy

Vassar College, May 2015

Internship Grant Fund

Vassar College, April 2014

Vera Rubin Fund for Students in Physics & Astronomy

Vassar College, March 2014

PROFESSIONAL MEMBERSHIPS

American Astronomical Society Junior Member, September 2016–Present

PROFESSIONAL SERVICE

Referee Astrophysical Journal, July 2018–Present

COMPUTATIONAL SKILLS

Operating Systems	Windows, MacOS/OS X, UNIX/Linux
Computer Languages	IDL, L ^A T _E X, Python
Astronomical Software	CIAO, DOLPHOT, DS9, GALFIT, IRAF, MaxIm DL, PHOEBE, XSPEC