# GAGANDEEP S. ANAND

Staff Scientist & ganand@stsci.edu & gsanand.github.io

## **CURRENT POSITION**

# Staff Scientist II, Science Support

Aug. 2021 – Present

Employed at the Space Telescope Science Institute (Baltimore, MD) as a Staff Scientist working on the Advanced Camera for Surveys on the Hubble Space Telescope.

#### **EDUCATION**

# Institute for Astronomy, University of Hawaii

December 2018/August 2021

MS/PhD in Astronomy

Thesis: Tip of the Red Giant Branch Distances to Nearby Galaxies

Advisor: Professor R. Brent Tully

Boston University

May 2017

M.A. in Astronomy

Vassar College May 2015

A.B. in Astronomy & Physics, Minor in Mathematics

## PREVIOUS RESEARCH POSITIONS

Graduate Research Assistant, University of Hawaii	Aug. 2017 – Aug. 2021
Visiting Graduate Research Fellow, IPAC/Caltech	Feb. 2020 – July 2020
Visiting Scholar, W.M. Keck Observatory	July 2017 – Aug. 2017
Graduate Researcher, Boston University	July 2015 - May 2017
Summer Researcher, Colby College	May 2014 – Aug. 2014
Observatory Assistant, Vassar College	Sept. $2011 - May 2015$

## COMPUTATIONAL SKILLS

Operating Systems Windows, MacOS/OS X, UNIX/Linux

Computer Languages IDL, LATEX, Python

Astronomical Software CIAO, DOLPHOT, DrizzlePac, DS9, GALFIT, IRAF, XSPEC

Amazon Web Services Amplify, EC2, IAM, Lambda, S3

Miscellaneous Software/Tools Git, Lightroom

#### PUBLICATION SUMMARY

#### NASA/ADS Link to All Publications

27 Refereed Publications (7 as first author)

3 Papers Under Review (All as co-author)

1 Technical Instrument Report (1 as first author)

670 + Citations (155 + as first author), h-index = 12

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# ${\bf HONORS/AWARDS}$

Hubble Identifies Unusual Wrinkle in Universe's Expansion Capturing All That Glitters in Galaxies With NASA's Webb Scientists Finally Confirm Elusive Third Type of Supernova Hubble Captures Cosmic Cinnamon Bun A Waterfall of Stars ARCS Scholar Awards Hubble Views a Galaxy on the 'Dark Side' Galaxy Clusters Offer Clues to Dark Matter and Dark Energy  Boston University, 201  OUTREACH ACTIVITIES  ESA/Hubble Picture of the Week Series Institute for Astronomy, Misc. Outreach Activities ESA/Hubble 2017-202 Boston University Astronomy Open Nights 2015-201 Vassar College Astronomy Open Nights 2011-201 PROFESSIONAL MEMBERSHIPS  American Astronomical Society, Full Member American Astronomical Society, Junior Member  PROFESSIONAL SERVICE  Referee  Astrophysical Journal (2+ papers), July 2018-Preset  FEACHING EXPERIENCE  Department of Astronomy Teaching Fellow  Astronomy 203- Principles of Astronomy II (Spring 2017) Astronomy 109- Cosmology (Fall 2015/Fall 2016) Astronomy 105- Alien Worlds (Spring 2016)  Department of Physics & Astronomy Sept. 2014 -May 2015 Department of Physics & Astronomy Sept. 2014 -May 2015 Department of Physics & Astronomy Sept. 2014 -May 2015 Department of Physics & Astronomy Sept. 2014 -May 2015			
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# Revisiting ACS/WFC Sky Backgrounds

Anand, G. S., Grogin, N., & Anderson, J., Instrument Science Report, ACS, 2022-01

## FIRST AUTHOR PUBLICATIONS

- Comparing Tip of the Red Giant Branch Distance Scales: An Independent Reduction of the Carnegie-Chicago Hubble Program and the Value of the Hubble Constant *Anand, G. S.*, Tully, R. B., Rizzi, L., Riess, A. G., & Yuan, W., 2022, *ApJ*
- The Extragalactic Distance Database: The Color-Magnitude Diagrams and Tip of the Red Giant Branch Distances Catalog *Anand, G. S.*, Rizzi, L., Tully, R. B., et al., 2021, *AJ*
- Distances to PHANGS Galaxies: New Tip of the Red Giant Branch Measurements and Adopted Distances

  Anand, G. S., Lee, J., Van Dyk, S., et al., 2021, MNRAS
- Peculiar Velocities of Galaxies Just Beyond the Local Group Anand, G. S., Tully, R. B., Rizzi, L., Shaya, E., & Karachentsev, I. D., 2019, ApJ
- The Distance and Motion of the Maffei Group

  Anand, G. S., Tully, R. B., Rizzi, L., & Karachentsev, I. D., 2019, ApJL
- A Robust Tip of the Red Giant Branch Distance to the Fireworks Galaxy (NGC 6946)

  Anand, G. S., Rizzi, L., & Tully, R. B., 2018, AJ
- The Distance to the Galaxy Coma P

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

## CO-AUTHOR PUBLICATIONS

- The Whisper of a Whimper of a Bang: 2400 Days of the Type Ia SN 2011fe Reveals the Decay of  $55\mathrm{Fe}$ 
  - Tucker, M. A., Shappee, B. J. , Kochanek, C.S., Stanek, K.Z., Ashall, C., *Anand, G. S.*, & Garnavich, P. *Submitted to MNRAS*
- A Comprehensive Measurement of the Local Value of the Hubble Constant with 1 km/s/Mpc Uncertainty from the Hubble Space Telescope and the SH0ES Team Riess, A. G., Yuan, W., Macri, L. M., [5 authors], *Anand, G. S*, [9 authors] 2022, ApJL
- Around the Spindle Galaxy: The Dark Halo Mass of NGC 3115
  Karachentsev, I. D., Makarova, L. N., *Anand, G. S.*, & Tully, R. B., 2022, *AJ*
- PNLF Distances for 19 Galaxies Observed by PHANGS-MUSE Scheuermann, F., Kreckel, K. Anand, G. S., [3 authors], Van Dyk, S. D., [11 authors], 2022, A&A
- The PHANGS-MUSE survey. Probing the chemo-dynamical evolution of disc galaxies Emsellem, E., Schinnerer, E., Santoro, F., [18 authors], *Anand, G. S.*, [26 authors], 2022, A&A
- KK 242, A Faint Companion to the Isolated Scd Galaxy NGC 6503

  Karachentsev, I. D., Cannon, J. M., Fuson, J., Inoue, J. L., Tully, R. B., *Anand, G. S.*, & Kaisin, S. S., 2022, *AJ*

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- Late-Onset Circumstellar Medium Interactions are Rare: An Unbiased GALEX View of Type Ia Supernovae
  - Dubay, L., Tucker, M., Do, A., Shappee, B., Anand, G. S., 2022, ApJ
- The PHANGS-HST Survey: Physics at High Angular resolution in Nearby GalaxieS with the Hubble Space Telescope

Lee, Janice C., Whitmore, Bradley C., Thilker, David A., Deger, Sinan, Larson, Kirsten L., Ubeda, Leonardo, *Anand, G. S.*, [10 authors], White, R. L., [36 authors], 2022, *ApJS* 

- Measuring an off-Center Detonation through Infrared Line Profiles: The peculiar Type Ia Supernova SN 2020qxp/ASASSN-20jq
  Hoeflich, P., Ashall, C., Bose, S., [4 authors], Anand, G. S., [12 authors], 2021, ApJ
- PHANGS-ALMA: Arcsecond CO(2–1) Imaging of Nearby Star-Forming Galaxies Leroy, A., Schinnerer, E., Hughes, A., [16 authors], *Anand, G. S.*, [52 authors], 2021, *ApJS*
- SN2019yvq Does Not Conform to SN Ia Explosion Models
  Tucker, M. A., Ashall, C., Shappee, B. J., Vallely, P. J., Kochanek, C. S., Huber, M. E., Anand,
  G. S., Keane, J. V., Hsiao, E. Y., Holoien, T. W. S., 2021, ApJ
- PHANGS-ALMA Data Processing and Pipeline Leroy, A., Hughes, A., Liu, D., [16 authors], *Anand, G. S.*, [47 authors], 2021, *ApJS*
- The Cepheid Distance to the Narrow-Line Seyfert 1 Galaxy NGC 4051
  Yuan, W., Macri, L., Peterson, B. M., Riess, A. G., Fausnaugh, M. M., Hoffman, S. L., *Anand, G. S.*, [11 authors], 2021, *ApJ*
- The Distance and Mass of the NGC 253 Galaxy Group Karachentsev, I. D., Tully, R. B., *Anand, G. S.*, Rizzi, L., Shaya, E. J., 2021, *AJ*
- The Electron-capture Origin of Supernova 2018zd
  Hiramatsu, D., Howell, D. A., Van Dyk, S. D., [19 authors], *Anand, G. S.*, [7 authors], 2021,
  Nature Astronomy
- The Properties of Dwarf Spheroidal Galaxies in the Cen A Group: Stellar Populations,
  Internal Dynamics, and a Heart-Shaped Hα Ring?
  Müeller, O., Fahrion, K., Rejkuba, M., Hilker, M., Lelli, F., Lutz, K., Pawlowski, M. S., Coccato,
  L., Anand, G. S., & Jerjen, H., 2020, A&A
- Distance and Mass of the M104 (Sombrero) Group Karachentsev, I. D., Makarova, L. N., Tully, R. B.; Anand,~G.~S.; Rizzi, L., Shaya, E. J., 2020,  $A \mathcal{E} A$
- KKH 22, The First Dwarf Spheroidal Satellite of IC 342
  Karachentsev, I. D., Makarova, L. N., Tully, R. B.; *Anand, G. S.*; Rizzi, L., Shaya, E. J., Afanasiev, V. L., 2020, *A&A*
- Cosmicflows-4: The Calibration of Optical and Infrared Tully-Fisher Relations Kourkchi, E.; Tully, R. B., *Anand, G. S.*, Courtois, H. M., Dupuy, A., Neill, J. D., Rizzi, L., Seibert, M., 2020, *ApJ*
- Does Gravity Fall Down? Evidence for Gravitational-wave Deflection along the Line of Sight to GW170817
  Rubin, D., Szapudi, I., Shappee, B. J., Anand, G. S., 2020, ApJL

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# 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., & *Anand*, *G. S.*, 2017, *ApJ* 

#### INVITED TALKS

# Cosmicflows-4: Tip of the Red Giant Branch Distances

American Museum of Natural History, New York, NY- September 2021 Herzberg Astronomy and Astrophysics Research Centre, NRC Canada- April 2021 UMass Amherst Galaxy Lunch Talk, Amherst, MA- March 2021

# PHANGS-HST: New Tip of the Red Giant Branch Distances

IPAC Colloquium, Pasadena, CA- July 2020

## CONTRIBUTED TALKS

# Tip of the Red Giant Branch Distances to Nearby Galaxies

Caltech Tea Talk- June 2020 Visiting Scholars Talk, W.M. Keck Observatory- August 2017

# Peculiar Velocities of Galaxies Just Beyond the Local Group

Constrained Local Universe Simulations 2019 Meeting, University of Lyon- September 2019

# 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

## CONFERENCE POSTERS

## PHANGS-HST: New Tip of the Red Giant Branch Distances

236th Meeting of the American Astronomical Society- June 2020

# The Extragalactic Distance Database: Color-Magnitude Diagrams and Tip of the Red Giant Branch Distances

235th Meeting of the American Astronomical Society- January 2020

## 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, Harvard-Smithsonian Center for Astrophysics- August 2016

#### Observations and Analysis of Orbital Period Changes in Contact Binaries

Vassar Undergraduate Research Summer Institute- July 2013

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