

ANIL C. SETH

Curriculum Vitae

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Education

UNIVERSITY OF WASHINGTON Ph.D. in Astronomy Thesis Title: “The Formation and Evolution of Late-Type Galaxies” Thesis Advisors: Paul Hodge & Julianne Dalcanton	June 2006
UNIVERSITY OF WASHINGTON M.S. in Astronomy	Dec. 2001
WESLEYAN UNIVERSITY B.A. in Physics, Astronomy & Music, with honors in Astronomy	May 1998

Professional Experience

ASSOCIATE PROFESSOR, PHYSICS & ASTRONOMY, UNIVERSITY OF UTAH	2017 – Present
ASSISTANT PROFESSOR, PHYSICS & ASTRONOMY, UNIVERSITY OF UTAH	2011 – 2017
LEAVE REPLACEMENT PROFESSOR, WELLESLEY COLLEGE Part-time position to design and teach two courses.	2010 – 2011
CFA & OIR POSTDOCTORAL FELLOWSHIPS, HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS Worked independently on topics including nuclear star clusters and resolved stellar populations.	2006 – 2011

Group

Postdocs Advised: Mark den Brok (2012–2015), Karina Voggel (2016–2019)

Graduate Students Advised: Aishwarya Ashok (Utah, 2018–Present), Antoine Dumont (Utah, 2017–Present), Renuka Pechetti (Utah, 2015–Present), Chris Ahn (Utah, 2014–2018), Dieu Nguyen (Utah, 2012–2018), Cliff Johnson (U. Washington, 2010–2015, primary advisor for thesis project, Ph.D. finished Aug. 2015), Claire Dorman (UCSC, 2012–2015, thesis committee member) Anja Feldmeier (ESO–Garching, 2012–2015), Dan Carson (UCIrvine, 2013–2016), David Cook (Wyoming, 2008–2015, thesis committee member), Markus Hartmann (UCLancashire, 2008–2011)

Undergraduate and Post-Bac Students Advised: David Ohlson, (2020–), Addie Wilkerson (ACCESS, 2020), Estephani TorresVillanueva (2019–), Tobin Wainer (2019–), Olivia Cooper (REU, 2018), Lexie Wilson (Honors Thesis, 2017), Candace Bryn (ACCESS, 2017), Timothy Bell (REU, 2016–2017), Julie Tang (ACCESS, 2016), Ellie Penner (ACCESS, 2015–2016), Jordan Bulkley (2014–2017), Gina Eastes (ACCESS, 2015), Alex Deich (2014–2015), Dylan Gregersen (2013–2015), Chris DiLullo (REU, 2014), Brian Kimmig (2012–2014), Matt Wallace (2013–2014), Katharine Larsen (Wellesley/Utah, 2011–2013), Nell Byler (Wellesley, 2011)

**Grants &
Awards
in Utah**

PRESIDENTIAL SCHOLAR, UNIVERSITY OF UTAH <i>Honors extraordinary research and academic efforts of early to mid-career faculty</i> , \$30,000.	2019–2021
NSF AST AAG GRANT <i>A Pioneering Test of Stellar Population Complexity Outside the Milky Way</i> , co-PI, \$276,562.	2019–2022
NSF AST AAG GRANT <i>Collaborative Research: Exploring the Dark Side of NGC 5128</i> , co-PI, \$191,991	2018–2021
NASA WFIRST SCIENCE INVESTIGATION TEAM <i>WFIRST Infrared Nearby Galaxies Survey</i> , co-I, \$101,025	2017–2020
HUBBLE SPACE TELESCOPE GUEST OBSERVER & ARCHIVAL GRANTS <i>Solving the Mystery of Galaxy Bulges and Bulge Substructure</i> , co-I, 54 orbits, \$165,197, 2017 <i>Increasing Diversity in Galaxies with BH Mass Measurements</i> , PI, 6 orbits, \$46,265, 2017 <i>A Legacy Imaging Survey of M33</i> , co-I, 108 orbits, \$54,348, 2016 <i>Improving Central Black Hole Mass Measurements in Low Mass Early Type Galaxies</i> , PI'ed by student Dieu Nguyen, 12 orbits, \$57,687, 2016 <i>Searching for a Supermassive Black Hole in the Brightest Ultracompact Dwarf Galaxy</i> , PI'ed by student Chris Ahn, 1 orbit, \$15,367, 2015 <i>Black Holes and Central Mass-to-Light Ratios in Low Mass Early-Type Galaxies</i> , PI, \$61,085, 2015 <i>The Structure of the Nearest Nuclear Star Clusters</i> , PI, \$116,854, 2013 <i>Weighing the Low Mass Black Hole in NGC 404</i> , PI, 6 orbits, \$57,422, 2011 <i>A Panchromatic Hubble Andromeda Treasury Survey</i> , 828 orbits, co-I, \$152,087, 2010 <i>Structure and Stellar Content of the Nearest Nuclear Star Clusters</i> , co-I, \$26,117, 2010 <i>The Hosts of Megamaser Disk Galaxies</i> , co-I, \$28,226, 2010	2010–2017
UNIVERSITY OF UTAH SEED GRANT <i>Heavier Than Stars: Finding Massive Black Holes</i> , PI, \$28,880	2015
NATIONAL SCIENCE FOUNDATION <i>CAREER: Understanding the Formation of Galaxy Nuclei</i> , PI, \$598,520	2014

**Selected
Telescope
Time**

GALAXIES AND THEIR CENTRAL BLACK HOLES Gemini North, 253 hours (Large Program), co-I, using NIFS instrument.	2016-2018
WEIGHING LOW MASS BLACK HOLES IN THE NEAREST AGN Atacama Large Millimeter Array, 5.4 hours, PI	Cycle 3, 2015-16
A GNIRS SURVERY OF THE NEAREST NUCLEAR STAR CLUSTERS Gemini North, 13.1 hours, PI, using GNIRS instrument	2016A
RESOLVING THE NATURE OF ULTRACOMPACT DWARFS Gemini North, 40.7 hours, PI, using NIFS instrument Keck 10m telescope, 1 night, co-I using OSIRIS instrument Very Large Telescope, 25.2 hours, co-I using SINFONI instrument	2014A,2015A
RESOLVING THE MOST MASSIVE GLOBULAR CLUSTERS IN THE LOCAL GROUP Gemini North, 12.8 hours, PI, using NIFS instrument. Keck 10m telescope, 1 night, co-I using OSIRIS instrument	2013B,2014B
A SURVEY OF NEARBY NUCLEAR STAR CLUSTERS Gemini North, 55 hours, PI, using the NIFS instrument with adaptive optics.	2008–2012
THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY SURVEY HST Multicycle Treasury Project, 828 Orbits, co-I, helped with preparation of proposal and led star cluster science team.	2010-2014

Telescope time listed above is allocated through competitive proposals with oversubscription rates for PI'ed proposals ranging from 3–9. Approximate Monetary Cost of Telescope Time Awarded as PI Since Arrival in Utah – \$613,000

Teaching Experience	KECK LECTURER IN DARK SKY STUDIES	Jan. 2019
	Helping develop interdisciplinary dark skies minor at U. of Utah.	
	EARLY CAREER TEACHING AWARD, UNIVERSITY OF UTAH	Mar. 2018
	ASSISTANT & ASSOCIATE PROFESSOR, UNIVERSITY OF UTAH	2012 – Present
	Taught 90-person introductory astronomy course (1060; Spring 2012), 25 person observational astronomy course (2060/4060; Fall 2012), 10-14 person graduate level extragalactic astronomy course (5570; Spring 2013, 2015, 2017), 14-24 person observational astronomy course (2060/4060; Fall 2013, Fall 2014, Fall 2015, Fall 2018), started new undergraduate extragalactic astrophysics course (Fall 2016, 2017), graduate research methods in astronomy (6410; Spring 2018, 2020).	
VISITING PROFESSOR, WELLESLEY COLLEGE	2010 – 2011	
Taught undergraduate seminar on stellar populations and general education astrobiology course.		
INSTRUCTOR, U. WASHINGTON	2003	
Instructor for 50 person night-time introductory astronomy class.		
Teaching Evaluations: Above average teaching evaluations in all semesters at Utah. Average instructor composite score: 5.6/6, Average course composite score: 5.3/6.		
U. of Utah Service	GRADUATE ADVISORY COMMITTEE	2018
	Helped reform the department's graduate program.	
	HONORS COLLEGE ADVISOR (CHAIR)	2012 – 2018
	Updated honors requirements, interface with honors students. Awarded \$1,000 for service in 2014.	
	ASTRONOMY TASK FORCE (CHAIR, 2017–2018)	2011 – 2018
	Helped create astronomy & astrophysics graduate and undergraduate emphases.	
ASTRONOMY FACULTY SEARCH COMMITTEE (CHAIR)	2015–2016	
Led successful hire of Gail Zasowski & Daniel Wik		
THESIS COMMITTEES	2011 – Present	
Currently member of 13 graduate committees (includes participating in oral qualifying exam, final exam).		
Additional Committees & Service: South Physics Observatory Committee (2012–Present, chair), High Energy Astrophysics Seminar Committee (2012-2013, chair 2013-14, chair 2016-17), Policy Board (2014-2015), Undergraduate Advising Committee (2012 – Present), Conference for Undergraduate Women in Physics (2014), College of Science Academic Appeals Committee (2011 – 2014), College of Science Council (2017-2019), Futures Committee (2017-2018), Outreach Committee (2017-2018)		
Recent Professional Service	NOAO SURVEY TIME ALLOCATION COMMITTEE	2018
	SCIENTIFIC ORGANIZING COMMITTEE	2017
	<i>The Exciting Lives of Galactic Nuclei</i> , Ringberg Castle, Germany.	
	HUBBLE SPACE TELESCOPE TIME ALLOCATION COMMITTEE	2015, 2016
	NSF PANEL REVIEW	2014
	CO-CHAIR SCIENTIFIC ORGANIZING COMMITTEE	2013
Led program definition, scientific organizing committee, speaker selection, and local organizing for <i>SnowPAC 2013 Black Hole Fingerprints: Dynamics, Disruptions & Demographics</i> , Snowbird, Utah.		
REFeree	2009 – Present	
Refereed papers for Nature, Astrophysical Journal (and Supplements), Monthly Notices of the Royal Astronomical Society		

Recent Talks

Since arrival in Utah: 39 invited talks, including invited keynote/review talks at three international conferences. Invited seminars or colloquia at: McGill (Oct. 2019), Columbia (Oct. 2019), Washington (May 2019), MPE-Garching (Jul. 2018), Distinguished Colloquium Washington State (Mar. 2018), Michigan (Nov. 2017), Michigan St. (Nov. 2017), MPIA-Heidelberg (June 2017 & Dec. 2016), Herzberg Institute (Apr. 2016), Texas Tech (Mar. 2016), Idaho State (Oct. 2015), UC Berkeley (May 2015), UCLA (Nov. 2014), Northwestern (Apr. 2014), Utah Valley (Feb. 2014), Arizona/NOAO (Jan. 2014), European Southern Observatory, Garching (Jun. 2013), Toronto (Apr. 2013), UC Santa Cruz (Oct. 2012), Wyoming (Mar. 2012), Brigham Young (Dec. 2011), Utah State (Oct. 2011).

Recent conference presentations listed below:

Invited Review *IAU Symposium 351: Star Clusters: from the Milky Way to the Early Universe*, Bologna, Italy, May 2019

Invited Speaker *Formation of Stars and Massive clusters in Dwarf Galaxies over Cosmic Time*, Lorentz Center, Leiden, the Netherlands, Feb. 2019

Invited Speaker *M33 HST Survey Team Meeting*, Ringberg Castle, Germany, Jul. 2018

Contributed Talk *Using tidal disruption events to study super-massive black holes*, Aspen, Jan. 2018

Invited Speaker, *Globular cluster systems and their host galaxies*, Sexten, Italy, Jun. 2017

Invited Speaker, *Exciting Lives of Galaxy Nuclei*, Ringberg Castle, Germany, Feb. 2017

Invited Speaker, *Stellar aggregates over mass and spatial scales*, Bad Honef, Germany, Dec. 2016

Invited Review, *MODEST-16: Gas and Gravitational Dynamics*, New York, NY, Sep. 2016

Invited Talk, *Fitting Stars, CMDs and Galaxies Workshop*, Rockport, MA, Oct. 2015

Invited Keynote Speaker, *Satellites and Streams in Santiago*, Santiago, Chile, Apr. 2015

Selected Outreach

Citizen science project, clustersearch.org, >1000 volunteers, Jan. 2019

Regular volunteer at star parties in the department and at astronomy festivals

2019: Lunar Eclipse Event at UofU, 2018: IDA conference Snowbird, Cedar Breaks

Astronomy Outreach Ranger Training Session; organized and taught

Bryce Canyon NP, May 2015 (1 week; 25 attendees), Arches NP, May 2018 (1 day; 20 attendees)

Started astronomy outreach summer internship program for two students each year at Bryce Canyon National Park: >20,000 direct interactions

Public Talk, Clark Planetarium, ~250 people, Jul. 2018

Public Talk, U to You series (Park City), ~200 people, Mar. 2018

Public Talk at Natural History Museum on Eclipse, ~100 people, Aug. 2017

Dedication of the 1.7m Clements Reflector, ~100 people, Jul. 2017

Science at Breakfast Public Talk, ~150 people, Dec. 2016

Attended Alan Alda Science Communication Workshop, Oct. 2016

Keynote Speaker, Astronomy Festival, Great Basin NP, ~150 people, Sep. 2016

Bryce Canyon Astronomy Festival Star Party volunteer, ~300 people, Jun. 2016

Public Talk, ~200 people, University of Utah Emeriti Club, Nov. 2015

Speaker and volunteer, ~200 people, Astronomy Festival, Great Basin NP, Sep. 2015

Leader of Andromeda Project, citizen science web site w/ ~30,000 users, 2012 – 2013

In the Press

Press release on student Chris Ahn's paper on supermassive black holes in ultracompact dwarf galaxies, coverage in New Scientist, SLTrib, KSL, Apr. 2017

Large press release on supermassive black hole in M60-UCD1: BBC interview, Washington Post, Wall Street Journal, LA Times, and 100s of other articles in at least 10 languages. Sep. 2014

Featured in two "Hubble Hangouts" related the Panchromatic Hubble Andromeda Treasury Project, Jan. & Sep. 2015. http://hubblesite.org/get_involved/hubble_hangouts/

Led press release on the Andromeda Project citizen science website launch. Wide local coverage including interviews on KSL-TV, KUTV, KUER, KCPW plus some national coverage (Popular Science, space.com). Dec. 2012

- Refereed Publications** **Summary:** 28 publications as first author or primary advisor plus 83 co-authored publications.
 Since arrival in Utah, Fall 2011: 19 first author or primary advisor plus 62 co-authored publications.
 Total citation count: 6822, *h*-index: 44
- First- Author or Primary Advisor Publications**
- 28) SURPRISINGLY STRONG K-BAND EMISSION FOUND IN LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI
 Dumont, A., **Seth, A.**, [4 authors], 2020, *ApJ*, 888, 19.
- 27) IMPROVED DYNAMICAL CONSTRAINTS ON THE MASSES OF THE CENTRAL BLACK HOLES IN NEARBY LOW-MASS EARLY-TYPE GALACTIC NUCLEI AND THE FIRST BLACK HOLE DETERMINATION FOR NGC 205
 Nguyen, D., **Seth, A.**, [18 authors], 2019, *ApJ*, 872, 104.
- 26) THE IMPACT OF STRIPPED NUCLEI ON THE SUPER-MASSIVE BLACK HOLE NUMBER DENSITY IN THE LOCAL UNIVERSE
 Voggel, K., **Seth, A.**, [4 authors], 2019, *ApJ*, 971, 159.
- 25) NEARBY EARLY-TYPE GALACTIC NUCLEI AT HIGH RESOLUTION: DYNAMICAL BLACK HOLE AND NUCLEAR STAR CLUSTER MASS MEASUREMENTS
 Nguyen, D., **Seth, A.**, [13 authors], 2018, *ApJ*, 858, 118.
- 24) THE BLACK HOLE IN THE MOST MASSIVE ULTRACOMPACT DWARF GALAXY M59-UCD3
 Ahn, C., **Seth, A.**, [20 authors], 2018, *ApJ*, 858, 102.
- 23) UPPER LIMITS ON THE PRESENCE OF CENTRAL MASSIVE BLACK HOLES IN TWO ULTRA-COMPACT DWARF GALAXIES IN CENTAURUS A
 Voggel, K., **Seth, A.**, [11 authors], 2018, *ApJ*, 858, 20.
- 22) DETECTION OF ENHANCED CENTRAL MASS-TO-LIGHT RATIOS IN LOW-MASS EARLY-TYPE GALAXIES: EVIDENCE FOR BLACK HOLES?
 Pechetti, R., **Seth, A.**, [5 authors], 2017, *ApJ*, 850, 15.
- 21) PANCHROMATIC HUBBLE ANDROMEDA TREASURY. XVIII. THE HIGH-MASS TRUNCATION OF THE STAR CLUSTER MASS FUNCTION
 Johnson, L. C., **Seth, A.**, [8 authors], 2017, *ApJ*, 839, 78.
- 20) DETECTION OF SUPERMASSIVE BLACK HOLES IN TWO VIRGO ULTRACOMPACT DWARF GALAXIES
 Ahn, C., **Seth, A.**, [14 authors], 2017, *ApJ*, 839, 72.
- 19) IMPROVED DYNAMICAL CONSTRAINTS ON THE MASS OF THE CENTRAL BLACK HOLE IN NGC 404
 Nguyen, D., **Seth, A.**, [7 authors], 2017, *ApJ*, 836, 237.
- 18) PANCHROMATIC HUBBLE ANDROMEDA TREASURY. XVI. STAR CLUSTER FORMATION EFFICIENCY AND THE CLUSTERED FRACTION OF YOUNG STARS
 Johnson, L. C., **Seth, A.**, [11 authors], 2016, *ApJ*, 827, 33.
- 17) PANCHROMATIC HUBBLE ANDROMEDA TREASURY. XII. MAPPING STELLAR METALLICITY DISTRIBUTIONS IN M31
 Gregersen, D., **Seth, A.**, [12 authors], 2015, *AJ*, 150, 189.
- 16) MEASURING THE MASS OF THE CENTRAL BLACK HOLE IN THE BULGELESS GALAXY NGC 4395 FROM GAS DYNAMICAL MODELING
 den Brok, M., **Seth, A.**, [8 authors], 2015, *ApJ*, 809, 101.

15) PHAT STELLAR CLUSTER SURVEY. II. ANDROMEDA PROJECT CLUSTER CATALOG
Johnson, L. C., **Seth, A.**, [12 authors], 2015, *ApJ*, 802, 127.

14) MEASURING CONSISTENT MASSES FOR 25 MILKY WAY GLOBULAR CLUSTERS
Kimmig, B., **Seth, A.**, [3 authors], 2015, *AJ*, 149, 53.

13) A SUPERMASSIVE BLACK HOLE IN AN ULTRACOMPACT DWARF GALAXY
Seth, A., [13 authors], 2014, *Nature*, 513, 98.

12) EXTENDED STRUCTURE AND FATE OF THE NUCLEUS IN HENIZE 2-10
Nguyen, D., **Seth, A.**, [4 authors], 2014, *ApJ*, 794, 34.

11) PHAT STELLAR CLUSTER SURVEY I. YEAR 1 CATALOG AND INTEGRATED PHOTOMETRY
Johnson, L. C., **Seth, A.**, [22 authors], 2012, *ApJ* 752, 95.

10) THE ACS NEARBY GALAXY SURVEY TREASURY. X.
QUANTIFYING THE STAR CLUSTER FORMATION EFFICIENCY OF NEARBY DWARF GALAXIES
Cook, D., **Seth, A.**, [7 authors], 2012, *ApJ*, 751, 100.

9) GAS ACCRETION IN THE M32 NUCLEUS: PAST & PRESENT
Seth, A., 2010, *ApJ*, 725, 670.

8) THE NGC 404 NUCLEUS: STAR CLUSTER AND LIKELY INTERMEDIATE MASS BLACK HOLE
Seth, A., Cappellari, M., Neumayer, N., Caldwell, N., [7 authors], 2010, *ApJ*, 714 713.

7) THE ROTATING NUCLEAR STAR CLUSTER IN NGC 4244
Seth, A., Blum, R., [4 authors], 2008, *ApJ*, 687, 997.

6) THE COINCIDENCE OF NUCLEAR STAR CLUSTERS AND ACTIVE GALACTIC NUCLEI
Seth, A., Agueros, M., Lee, D., Basu-Zych, A., 2008 *ApJ*, 678, 116.

5) CLUES TO NUCLEAR STAR CLUSTER FORMATION FROM EDGE-ON SPIRALS
Seth, A., Dalcanton, J., Hodge, P., Debattista, V., 2006 *AJ*, 132, 2539.

4) A STUDY OF EDGE-ON GALAXIES WITH HST/ACS. II. VERTICAL DISTRIBUTION
OF THE RESOLVED STELLAR POPULATION
Seth, A., Dalcanton, J., de Jong, S., 2005 *AJ*, 130, 1574.

3) A STUDY OF EDGE-ON GALAXIES WITH HST/ACS. I. INITIAL RESULTS
Seth, A., Dalcanton, J., de Jong, S., 2005 *AJ*, 129, 1331.

2) STAR CLUSTERS IN VIRGO AND FORNAX DWARF IRREGULAR GALAXIES
Seth, A., Olsen, K., Miller, B., Lotz, J., Telford, R., 2004 *AJ*, 127, 798.

1) WATER MASERS AS TRACERS OF PROTOSTELLAR DISKS AND OUTFLOWS
IN THE INTERMEDIATE-MASS STAR-FORMING REGION NGC 2071
Seth, A., Greenhill, L., Holder, B., 2002 *ApJ*, 581, 325.

**Other
Refereed
Publications**

83) MILKY WAY ANALOGUES IN MANGA: MULTI-PARAMETER HOMOGENEITY AND COMPARISON
TO THE MILKY WAY
Boardman, N., [1 author], **Seth, A.**, [15 authors], 2019, *MNRAS*.

82) A DEEP VIEW INTO THE NUCLEUS OF THE SAGITTARIUS DWARF SPHEROIDAL GALAXY WITH
MUSE.
I. DATA AND STELLAR POPULATION CHARACTERIZATION
Alfaro-Cuello, M., [3 authors], **Seth, A.**, [7 authors], 2019, *ApJ*, 886, 57.

- 81) SIGNATURES OF TIDAL DISRUPTION IN ULTRA-FAINT DWARF GALAXIES: A COMBINED HST, GAIA, AND MMT/HECTOCHELLE STUDY OF LEO V
Mutlu-Pakdil, B., [8 authors], **Seth, A.**, [2 authors], 2019, *ApJ*, 885, 53.
- 80) THE FAINT END OF THE CENTAURUS A SATELLITE LUMINOSITY FUNCTION
Crnojevic, D., [7 authors], **Seth, A.**, [3 authors], 2019, *ApJ*, 872, 80.
- 79) ASYMMETRIC DRIFT IN THE ANDROMEDA GALAXY (M31) AS A FUNCTION OF STELLAR AGE
Quirk, A., [4 authors], **Seth, A.**, [2 authors], 2019, *ApJ*, 871, 11.
- 78) STELLAR POPULATIONS AND STAR FORMATION HISTORIES OF THE NUCLEAR STAR CLUSTERS IN SIX NEARBY GALAXIES
Kacharov, N., [1 author], **Seth, A.**, 2018, *MNRAS*, 480, 1973.
- 77) STELLAR POPULATIONS AND STAR FORMATION HISTORIES OF THE NUCLEAR STAR CLUSTERS IN SIX NEARBY GALAXIES
Kacharov, N., [1 author], **Seth, A.**, 2018, *MNRAS*, 480, 1973.
- 76) A 3.5 MILLION SOLAR MASSES BLACK HOLE IN THE CENTRE OF THE ULTRACOMPACT DWARF GALAXY FORNAX UCD3
Afansiev, A., [5 authors], **Seth, A.**, 2018, *MNRAS*, 477, 4856.
- 75) THE MAVERIC SURVEY: STILL NO EVIDENCE FOR ACCRETING INTERMEDIATE-MASS BLACK HOLES IN GLOBULAR CLUSTERS
Tremou, E., [8 authors], **Seth, A.**, 2018, *ApJ*, 862, 16.
- 74) THE FAINT GLOBULAR CLUSTER IN THE DWARF GALAXY ANDROMEDA I
Caldwell, N., [3 authors], **Seth, A.**, 2017, *PASA*, 34, 39.
- 73) A MULTI-WAVELENGTH STUDY OF THE TURBULENT CENTRAL ENGINE OF THE LOW-MASS AGN HOSTED BY NGC404
Nyland, K., [2 authors], **Seth, A.**, 2017, *ApJ*, 845, 50.
- 72) CIRCUMNUCLEAR STRUCTURES IN MEGAMASER HOST GALAXIES
Pjanka, P., [1 author], **Seth, A.**, 2017, *ApJ*, 844, 2.
- 71) HST IMAGING OF THE ULTRA-COMPACT HIGH VELOCITY CLOUD AGC 226067: A STRIPPED REMNANT IN THE VIRGO CLUSTER
Sand, D., **Seth, A.**, [11 authors], *ApJ*, 843, 134.x
- 70) SPATIAL AND KINEMATIC SEGREGATION IN STAR-CLUSTER MERGER REMNANTS
Cole, D., [3 authors], **Seth, A.**, 2017, *MNRAS*, 466, 2895.
- 69) USING CONTOUR TREES IN THE ANALYSIS AND VISUALIZATION OF RADIO ASTRONOMY DATA CUBES
Rosen, P., [1 author], **Seth, A.**, [5 authors], 2017, *VIS* 2017, [arXiv:1704.04561]
- 68) EMISSION-LINE STARS IN M31 FROM THE SPLASH AND PHAT SURVEYS
Prichard, L., [4 authors], **Seth, A.**, [4 authors], 2017, *MNRAS*, 465, 4180.
- 67) MEGAMASER DISKS REVEAL A BROAD DISTRIBUTION OF BLACK HOLE MASS IN SPIRAL GALAXIES
Greene, J. E., **Seth, A.**, [9 authors], 2016, *ApJL*, 826, 32.
- 66) THE BLACK HOLE – BULGE MASS RELATION IN MEGAMASER HOST GALAXIES
Läscher, R., Greene, J., **Seth, A.**, [4 authors], 2016, *ApJ*, 825, 3.

- 65) THE EXTENDED HALO OF CENTAURUS A: UNCOVERING SATELLITES, STREAMS, AND SUBSTRUCTURES
Crnojević, D., [5 authors], **Seth, A.**, [3 authors], 2016, *ApJ*, 823, 19.
- 64) A TIDALLY DISRUPTING DWARF GALAXY IN THE HALO OF NGC 253
Toloba, E., [8 authors], **Seth, A.**, 2016, *ApJL*, 816, 5.
- 63) KMOS VIEW OF THE GALACTIC CENTRE. I. YOUNG STARS ARE CENTRALLY CONCENTRATED
Feldmeier-Krause, A., [2 authors], **Seth, A.**, [6 authors], 2015, *A&A*, 584, 2.
- 62) DEEP RADIO IMAGING OF 47 TUC IDENTIFIES THE PECULIAR X-RAY SOURCE X9 AS A NEW BLACK HOLE CANDIDATE
Miller-Jones, J., [8 authors], **Seth, A.**, [1 author], 2015, *MNRAS*, 453, 3918.
- 61) THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. VIII. A WIDE-AREA, HIGH-RESOLUTION MAP OF DUST EXTINCTION IN M31
Dalcanton, J., [15 authors], **Seth, A.**, [1 author], 2015, *ApJ*, 814, 3.
- 60) A SPECTROSCOPIC AND PHOTOMETRIC EXPLORATION OF THE C/M RATIO IN THE DISK OF M31
Hamren, K., [6 authors], **Seth, A.**, [7 authors], 2015, *ApJ*, 810, 60.
- 59) HENIZE 2-10: THE ONGOING FORMATION OF A NUCLEAR STAR CLUSTER AROUND A MASSIVE BLACK HOLE
Arca-Sedda, M., [2 Authors], **Seth, A.**, 2015, *ApJ*, 806, 220.
- 58) THE HIGH-MASS STELLAR INITIAL MASS FUNCTION IN M31 CLUSTERS
Weisz, D., Johnson, L. C., [15 authors], **Seth, A.**, [1 author], 2015, *ApJ*, 806, 198.
- 57) A COMPREHENSIVE ARCHIVAL SEARCH FOR COUNTERPARTS TO ULTRA-COMPACT HIGH VELOCITY CLOUDS: FIVE LOCAL VOLUME DWARF GALAXIES
Sand, D., [16 authors], **Seth, A.**, [2 authors], 2015, *ApJ*, 806, 95.
- 56) THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY XI: THE SPATIALLY-RESOLVED RECENT STAR FORMATION HISTORY OF M31
Lewis, A., [5 authors], **Seth, A.**, [11 authors], 2015, *ApJ*, 805, 183.
- 55) A CLEAR AGE-VELOCITY DISPERSION CORRELATION IN ANDROMEDA'S STELLAR DISK
Dorman, C., Guhathakurtha, R., **Seth, A.**, [9 authors], 2015, *ApJ*, 803, 24.
- 54) THE STRUCTURE OF NUCLEAR STAR CLUSTERS IN NEARBY LATE-TYPE SPIRAL GALAXIES FROM HUBBLE SPACE TELESCOPE WIDE FIELD CAMERA 3 IMAGING
Carson, D., Barth, A., **Seth, A.**, [5 authors], 2015, *AJ*, 149, 170.
- 53) TRACING THE METAL-POOR M31 STELLAR HALO WITH BLUE HORIZONTAL BRANCH STARS
Williams, B., [6 authors], **Seth, A.**, [3 authors], 2015, *accepted by ApJ*
- 52) THE SLOAN DIGITAL SKY SURVEY REVERBERATION MAPPING PROJECT: TECHNICAL OVERVIEW
Shen, Y., [24 authors], **Seth, A.**, [12 authors], 2015, *ApJS*, 216, 4.
- 51) THE HST/ACS COMA CLUSTER SURVEY. X. NUCLEAR STAR CLUSTERS IN LOW-MASS EARLY-TYPE GALAXIES: SCALING RELATIONS
den Brok, M., Peletier, R., **Seth, A.**, [16 authors], 2014, *MNRAS*, 445, 2385.
- 50) THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY X. ULTRAVIOLET TO INFRARED PHOTOMETRY OF 117 MILLION EQUIDISTANT STARS
Williams, B., [16 authors], **Seth, A.**, 2014, *ApJS*, 215, 9.

- 49) DISCOVERY OF A CLOSE PAIR OF FAINT DWARF GALAXIES IN THE HALO OF CENTAURUS A
Crnojevic, D., Sand, D., [3 authors], Seth, A., [3 authors], 2014, *ApJ*, 759, 35.
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