

ANIL C. SETH

Curriculum Vitae

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Education UNIVERSITY OF WASHINGTON June 2006
 Ph.D. in Astronomy
 Thesis Title: “The Formation and Evolution of Late-Type Galaxies”
 Thesis Advisors: Paul Hodge & Julianne Dalcanton

UNIVERSITY OF WASHINGTON Dec. 2001
 M.S. in Astronomy

WESLEYAN UNIVERSITY May 1998
 B.A. in Physics, Astronomy & Music, with honors in Astronomy

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 2010 – 2011
 Part-time position to design and teach two courses.

CFA & OIR POSTDOCTORAL FELLOWSHIPS, HARVARD-SMITHSONIAN
 CENTER FOR ASTROPHYSICS 2006 – 2011
 Worked independently on topics including nuclear star clusters and resolved stellar populations.

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

Graduate Students Advised: Christian Hannah (2020–), Ben Gibson (2020–), Aishwarya Ashok (Utah, 2018–), Antoine Dumont (Utah, 2017–), Renuka Pechetti (Utah, 2015–2020), 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 (UCLan-cashire, 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	2017–2021
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**

THE FORMATION HISTORY OF OMEGA CENTAURI Very Large Telescope, MUSE instrument, 24.3 hours, co-I.	2020, Period 105
GALAXIES AND THEIR CENTRAL BLACK HOLES Gemini North, 253 hours (Large & Long Program), co-I, using NIFS instrument.	2016-2021
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 <i>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</i>	2014A,2015A

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, Fall 2020), 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, 2020,2021), instructor for new Being Human in STEM course (SCI3900; Spring 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	DEPARTMENT ACTION AND LEADERSHIP INSTITUTE	2021
	Led proposal to attend 2021 intensive workshop on departmental change.	
	DIRECTOR OF UNDEGRADUATE STUDIES	2020–Present
	Leading reform of undergruate physics program (chair of reform committee).	
	CURRICULUM COMMITTEE	2020–Present
	Chairing departmental curriculum committee, part of college curriculum committee.	
	GRADUATE ADVISORY COMMITTEE	2018
	Helped reform the department’s graduate program.	
	HONORS COLLEGE ADVISOR (CHAIR)	2012 – 2020
	Updated honors requirements, interface with honors students. Awarded \$1,000 for service in 2014.	
ASTRONOMY TASK FORCE (CHAIR, 2017–2018)	2011 – Present	
Helped create astronomy & astrophysics graduate and undergraduate emphases.		
Additional Committees & Service: Astronomy Faculty Searchc Committee (2015–2016, chair), South Physics Observatory Committee (2012–2019, 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
	<i>Led program definition, scientific organizing committee, speaker selection, and local organizing for 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: 40 invited talks, including invited keynote/review talks at three international conferences. Invited seminars or colloquia at: Edinburgh (Dec. 2020, virtual), 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:

Contributed Talk, *American Astronomical Society Virtual Meeting*, Jan. 2021

Contributed Talk, *Supermassive Black Holes (organized by U. de Chile)*, Dec. 2020

Invited Review *Globular Clusters at the Nexus of Star and Galaxy Formation KITP Virtual Workshop*, May 2020

Contributed Talk *MODEST-20: Dense Star Clusters in the Era of Large Surveys*, Mumbai, India, Feb. 2020

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

Selected Outreach

Astronomy Outreach Internships at Bryce Canyon: creation, fund raising, and administration, 2015–2021. Interns have ~10,000 direct interactions per year

Public Talks, Utah Astronomy Club, Utah Valley Astro Club, Fall 2019

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)

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

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

- Refereed Publications** **Summary:** 30 publications as first author or primary advisor plus 95 co-authored publications.
 Since arrival in Utah, Fall 2011: 21 first author or primary advisor plus 74 co-authored publications.
 Total citation count: 7452, *h*-index: 49
- First- Author or Primary Advisor Publications**
- 30) LUMINOSITY MODELS AND DENSITY PROFILES FOR NUCLEAR STAR CLUSTERS FOR A NEARBY VOLUME-LIMITED SAMPLE OF 29 GALAXIES
 Pechetti, R., **Seth, A.**, [4 authors], 2020, *ApJ*, 900, 32.
- 29) A GAIA-BASED CATALOG OF CANDIDATE STRIPPED NUCLEI AND LUMINOUS GLOBULAR CLUSTERS IN THE HALO OF CENTAURUS A
 Voggel, K., **Seth, A.**, [5 authors], 2020, *ApJ*, 899, 140.
- 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**

- 95) A RESTLESS SUPERMASSIVE BLACK HOLE IN THE GALAXY J0437+2456
Pesce, D., **Seth, A.**, [5 authors], 2021, accepted by *ApJ* [arXiv:2101.07932].

- 94) COMPOSITE BULGES - II. CLASSICAL BULGES AND NUCLEAR DISCS IN BARRED GALAXIES: THE CONTRASTING CASES OF NGC 4608 AND NGC 4643
Erwin, P., **Seth, A.**, [15 authors], 2021, accepted by MNRAS [arXiv:2101.05321].
- 93) THE APOGEE LIBRARY OF INFRARED SSP TEMPLATES (A-LIST): HIGH-RESOLUTION SIMPLE STELLAR POPULATION SPECTRAL MODELS IN THE H-BAND
Ashok, A., Zasowski, G., **Seth, A.**, [8 authors], 2021, accepted by AJ [arXiv:2012.15773].
- 92) OPEN CLUSTER CHEMICAL HOMOGENEITY THROUGHOUT THE MILKY WAY
Poovelil, V., [2 authors], **Seth, A.**, [9 authors], 2020, ApJ, 903, 55.x
- 91) THE ELUSIVE DISTANCE GRADIENT IN THE ULTRAFAINTE DWARF GALAXY HERCULES: A COMBINED HUBBLE SPACE TELESCOPE AND GAIA VIEW
Mutlu-Pakdil, B., [6 authors], **Seth, A.**, [1 author], 2020, ApJ, 902, 106.
- 90) PHAT XX. AGB STARS AND OTHER COOL GIANTS IN M31 STAR CLUSTERS
Girardi, L., [4 authors], **Seth, A.**, [17 authors], 2020, ApJ, 901, 19.
- 89) REVEALING THE INTERMEDIATE-MASS BLACK HOLE AT THE HEART OF THE DWARF GALAXY NGC 404 WITH SUB-PARSEC RESOLUTION ALMA OBSERVATIONS
Davis, T., [1 author], **Seth, A.**, [15 authors], 2020, MNRAS, 496, 4061.
- 88) NUCLEAR X-RAY ACTIVITY IN LOW-SURFACE-BRIGHTNESS GALAXIES: PROSPECTS FOR CONSTRAINING THE LOCAL BLACK HOLE OCCUPATION FRACTION WITH A CHANDRA SUCCESSOR MISSION
Hodges-Kluck, E., [1 author], **Seth, A.**, [2 authors], 2020, ApJ, 898, 106.
- 87) NUCLEAR STAR CLUSTERS (REVIEW ARTICLE)
Neumayer, N., **Seth, A.**, Boeker, T., 2020, The Astronomy & Astrophysics Review, 28, 4.
- 86) ASYMMETRIC SPATIAL DISTRIBUTION OF SUBSOLAR METALLICITY STARS IN THE MILKY WAY NUCLEAR STAR CLUSTER
Feldmeier-Krause, A., [5 authors], **Seth, A.**, [6 authors], 2020, MNRAS, 494, 396.
- 85) THE MBHBM PROJECT. I. MEASUREMENT OF THE CENTRAL BLACK HOLE MASS IN SPIRAL GALAXY NGC 3504 USING MOLECULAR GAS KINEMATICS
Nguyen, D., [1 author], **Seth, A.**, [17 authors], 2020, ApJ, 892, 68.
- 84) A DEEP VIEW INTO THE NUCLEUS OF THE SAGITTARIUS DWARF SPHEROIDAL GALAXY WITH MUSE. II. KINEMATIC CHARACTERIZATION OF THE STELLAR POPULATIONS
Alfaro-Cuello, M., [5 authors], **Seth, A.**, [5 authors], 2020, ApJ, 892, 20.
- 83) MILKY WAY ANALOGUES IN MANGA: MULTI-PARAMETER HOMOGENEITY AND COMPARISON TO THE MILKY WAY
Boardman, N., [1 author], **Seth, A.**, [15 authors], 2020, MNRAS, 491, 3672.
- 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
Läsker, 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.
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