

CONTACT INFORMATION	Kavli Institute for Astrophysics Massachusetts Institute of Technology 70 Vassar Street Cambridge, MA 02139	web: space.mit.edu/home/noble/ email: noble@mit.edu
RESEARCH INTERESTS	My research is aimed at studying galaxy evolution through the triad of parameters that dictate galaxy properties: environment, mass, and time . In particular, I focus on the most extreme end of these parameters: the dense regions of galaxy clusters, the most massive galaxies in the Universe, and the cosmic “high noon” of star formation. I utilize many space-based and ground facilities, including ALMA , <i>Herschel</i> (PACS, SPIRE), <i>Spitzer</i> (MIPS, IRAC), the JCMT (SCUBA-2), <i>HST</i> , and the VLA .	
COLLABORATION	I am an active member of: <ul style="list-style-type: none"> • SpARCS: Spitzer Adaptation of the Red-Sequence Cluster Survey • GOGREEN: Gemini Observations of Galaxies in Rich Early Environments • SPT: South Pole Telescope 	
EDUCATION	Ph.D. McGill University - Department of Physics <ul style="list-style-type: none"> • Thesis: <i>Dusty Star-Forming Galaxies within High-Redshift Galaxy Clusters</i> • Advisor: Tracy Webb M.Sc. McGill University - Department of Physics <ul style="list-style-type: none"> • Thesis: <i>Submillimeter Imaging of High-Redshift Galaxy Clusters</i> • Advisor: Tracy Webb B.Sc. University of Wisconsin - Madison (Graduated with Distinction) <ul style="list-style-type: none"> • Dual Major: Honors in Physics and Astrophysics • Certificate: Integrated Liberal Studies • Honors Thesis: <i>The Wisconsin Small Telescope Array for Radio-waves</i> • Advisors: Peter Timbie and Jay Gallagher 	2014 2009 2007
PROFESSIONAL EMPLOYMENT	Postdoctoral Associate <ul style="list-style-type: none"> • Massachusetts Institute of Technology, USA • Advisor: Michael McDonald Postdoctoral Fellow <ul style="list-style-type: none"> • University of Toronto, Canada • Advisor: Howard Yee Summer Internship <ul style="list-style-type: none"> • JIVE/Astron, The Netherlands 	2016 – present 2014 – 2016 2007

OBSERVING PROPOSALS

Principal Investigator/Science Lead Proposals

- **ALMA Cycle 6**, 19.7 hours (in queue, high priority): “*Kinematic Diversity at $z \sim 1.6$: Resolving CO (2-1) in Gas-rich Cluster Galaxies*” 2018
- **ALMA Cycle 6**, 7 hours (in queue, high priority): “*Feeding the Beasts: Investigating Merger-Induced Growth of Star-bursting BCGs*” 2018
- **ALMA Cycle 5**, 4.4 hours: “*Resolving the Unusual Molecular Gas Excess in $z = 1.6$ Cluster Galaxies*” – [Noble et al. 2018](#) 2017
- **ALMA Cycle 5**, 7 hours (not completed): “*Feeding the Beasts: Investigating the Merger-Induced Growth of Star-bursting BCGs from $0.7 < z < 1.7$* ” 2017
- **ALMA Cycle 3**, 13 hours: “*The first glimpse of CO 2-1 in $z = 1.6$ cluster galaxies*” – [Noble et al. 2017](#) 2015
- **JCMT (SCUBA2)**, 3 hours: “*Discovery of an Extreme Star-Forming Central Galaxy within a Massive Galaxy Cluster at $z = 1.7$* ” – [Webb, Noble et al. 2015](#) 2014
- **JCMT (SCUBA2)**, 8 hours: “*Submm imaging of a $z = 0.9$ merging supercluster: studying the nature of star formation and mass assembly in a vast range of environments*” – [Noble et al. 2013](#) 2012
- **Herschel (PACS)**, 26 hours (priority 1): “*Constraining the star-formation activity in 10 SpARCS clusters: star-formation in the densest regions at $z = 1$* ” – [Noble et al. 2016](#) 2011
- **Herschel (PACS)**, 37 hours (priority 2, only 16 hours partially completed): “*Constraining the star-formation activity in very high-redshift clusters: Herschel observations of SpARCS clusters at $z = 1.6$* ” 2011

Co-Investigator Proposals

- I have been involved in an additional > 20 accepted proposals as a co-I for: *HST*, *Spitzer*, Gemini, Keck, ALMA, *Herschel*, SCUBA-2, VLA, *XMM*, Magellan, Subaru, CFHT, LMT.

OBSERVING EXPERIENCE

I have been a visiting observer at the following telescopes:

- Magellan (IMACS) – 3 nights Oct 2017
- Magellan (FourStar) – 3 nights Jan 2017
- Subaru (Suprime-Cam) – 2 nights May 2016
- Gemini-N (GMOS) – 4 nights May 2015
- Gemini-S (GMOS) – 8 nights Nov 2014
- JCMT (SCUBA-2) – 7 nights Sept 2012
- JCMT (SCUBA-2) – 5 nights Feb 2012
- Subaru (FMOS) – 1 night Oct 2011
- WIYN (0.9 meter) – 5 nights Mar 2007
- WIYN (3.5 meter) – 3 nights Dec 2006

INVITED SEMINARS & WORKSHOPS	<i>COSWEB: The Cosmic Web and Galaxy Evolution</i> , ISSI Workshop, Bern, Switzerland	to come, Oct 2019
	<i>HEAD 17th Divisional Meeting Special Session</i> , Monterey, California	to come, Mar 2019
	<i>Galaxy Evolution in the Cosmic Web</i> , Lorentz Center Workshop, Leiden, The Netherlands	to come, Mar 2019
	<i>Submillimeter Array Seminar</i> , Center for Astrophysics, Harvard, Cambridge, MA, USA	to come, Dec 2018
	<i>Gemini Observations of Galaxies in Rich Early Environments</i> , Workshop, University of Waterloo, Canada	Aug 2018
	<i>Cosmology Seminar</i> , Minnesota Institute for Astrophysics, Minneapolis, MN, USA	Nov 2017
	<i>Galaxies and Cosmology Seminar</i> , Center for Astrophysics, Harvard, Cambridge, MA, USA	Feb 2017
	<i>The Effect of Dense Environments on Gas in Galaxies</i> , ISSI Workshop, Bern, Switzerland	Oct 2016
	<i>Astrophysics Seminar</i> , University of Waterloo, Canada	Feb 2016
<i>Astrophysics Journal Club</i> , McMaster University, Canada	Jan 2016	
CONTRIBUTED TALKS	<i>SnowCluster 2018</i> , Snowbird, Utah	Mar 2018
	<i>The Role of Gas in Galaxy Dynamics</i> , Valletta, Malta	Oct 2017
	<i>Early stages of Galaxy Cluster Formation</i> , Garching, Germany	July 2017
	<i>Galaxy Clusters Across Cosmic Time</i> , Aix-en-Provence, France	July 2017
	<i>Postdoc Symposium</i> , MIT, Cambridge, MA, USA	May 2017
	<i>Mapping Galaxy Transformation Across Time and Space</i> , Catalina Island, USA	Aug 2016
	<i>American Astronomical Society 227th Meeting</i> , Kissimmee, USA	Jan 2016
	<i>In the Footsteps of Galaxies</i> , Soverato, Italy	Sept 2015
<i>The Many Pathways to Galaxy Growth</i> , Prato, Italy	June 2015	
<i>Evolving Galaxies in Evolving Environments</i> , Bologna, Italy	Sept 2014	
PRESS RELEASES AND PUBLIC OUTREACH	<ul style="list-style-type: none"> ● Sky & Telescope interviewee <ul style="list-style-type: none"> – “14 Galaxies Might Become Universe’s Most Massive Structure” ● MIT/UC-Riverside News Release for Noble et al. (2017) <ul style="list-style-type: none"> – “MIT Kavli scientists gain new insights into the early universe’s galaxy clusters” – “Scientists Get Best Measure of Star-forming Material in Galaxy Clusters in Early Universe” ● Hubble Hangout participant on YouTube <ul style="list-style-type: none"> – “Hubble Discovers Vibrant Star Formation in the Heart of a Distant Galaxy Cluster” ● HST/Spitzer Joint Press Release for Webb, Noble et al. (2015) <ul style="list-style-type: none"> – “NASA Telescopes Find Galaxy Cluster with Vibrant Heart” ● Co-founder and presenter for Astronomy on Tap – Cambridge ● Volunteer at Astronomy on Tap – Toronto 	Apr 2018
		July 2017
		Sept 2015
		Sept 2015
		2016 – present
		2014 – 2016

**GRANTS/
AWARDS**

Observing Proposals (**Total: \$585k**)

- **PI** (science), *Herschel*, 2011: “*Constraining the star-formation activity in 10 SpARCS clusters: star-formation in the densest regions at $z = 1$* ” \$98k
- **PI** (science), *Herschel*, 2011: “*Constraining the star-formation activity in very high- z clusters: Herschel observations of SpARCS clusters at $z = 1.6$* ” (observations not completed) \$27k
- co-I, *HST*, Cycle 25: “*The GOGREEN Survey: The Relationship between Quenching, Morphological Transformation and Size Growth of Satellite Galaxies*” \$225k
- co-I, *HST*, Cycle 22: “*Resolved $H\alpha$ Maps of Star-forming Galaxies in Distant Clusters: Towards a Physical Model of Satellite Galaxy?*” \$139k
- co-I, *HST*, Cycle 21: “*Is the Size Evolution of Massive Galaxies Accelerated in Cluster Environments?*” \$96k

Research ((**Total: \$15k**))

- **Core Team**, Royal Society International Exchange, 2018: “*Mapping the Cosmic Web: Unifying Clusters and Protoclusters*” \$15k

**FELLOWSHIPS/
SCHOLARSHIPS**

Total: \$55.5k

- Schulich Graduate Fellowship, 2012 \$25k
- McGill Departmental Fellowship, 2011 \$5k
- Molson and Hilton Hart Fellowship, 2010 \$2.5k
- Principal’s Graduate Fellowship, 2010 \$2.5k
- Provost’s Graduate Fellowship, 2009 \$2.5k
- Principal’s Graduate Fellowship, 2008 \$2.5k
- McGill Recruitment Excellence Fellowship, 2007 \$5k
- Fay Ajzenberg-Selove Award, 2007 \$3k
- UW-Madison Astronomy Department Graduate Award, 2007
- Chambliss Student Achievement Award at the AAS Meeting, 2007
- Wisconsin Space Grant Consortium Grant, 2006 \$2k
- Wisconsin Space Grant Consortium Scholarship, 2006 \$1k
- Phi Beta Kappa, 2006
- Dr. Maritza Irene Stapanain Crabtree Undergraduate Award, 2006 \$3k
- Bernice Durand Undergraduate Research Scholarship, 2004 \$1.5k

MENTORSHIP	Mie Beers (Undergraduate, McGill University)	Summer 2016
	<ul style="list-style-type: none"> • Primary supervisor of summer research student. • co-supervisor: Howard Yee • We had weekly group meetings, and one-on-one meetings with only me ~ 3 times per week. • She calculated the merger rate in $z \sim 1$ clusters and measured the star formation rate in galaxy pairs. 	
	Taylor Bell (Undergraduate, University of Saskatchewan)	Summer 2015
	<ul style="list-style-type: none"> • Primary supervisor of summer research student. • co-supervisor: Howard Yee • We had weekly group meetings, and one-on-one meetings with only me ~ 3 times per week. • He stacked <i>Spitzer</i> images of 3000 $z \sim 1$ cluster galaxies to measure clustercentric radial trends in star formation rates. 	
TEACHING EXPERIENCE	Professional Development	
	<ul style="list-style-type: none"> • Institute for Scientist and Engineer Educators Professional Development Program <ul style="list-style-type: none"> – Designed and implemented a day-long, inquiry-based learning activity for 12 undergraduate researchers – 150-hour development program 	2016
	Lectures and Tutorials	
	<ul style="list-style-type: none"> • Galaxies and Cosmology <ul style="list-style-type: none"> – Instructed one hour-long lecture 	Spring 2016
	<ul style="list-style-type: none"> • The Milky Way Inside and Out <ul style="list-style-type: none"> – Instructed three hour-long lectures 	Spring 2009, 2012, 2013
	<ul style="list-style-type: none"> • Optics and Electromagnetism <ul style="list-style-type: none"> – Prepared a weekly hour-long lecture – Held a weekly two-hour homework tutorial 	Spring 2010, 2011
	<ul style="list-style-type: none"> • Introduction to Astrophysics <ul style="list-style-type: none"> – Instructed one hour-long lecture 	Fall 2011
	<ul style="list-style-type: none"> • Our Evolving Universe <ul style="list-style-type: none"> – Instructed one hour-long lecture 	Fall 2010

PROFESSIONAL SERVICE	Telescope Committees	2015 – present
	<ul style="list-style-type: none"> • <i>Chandra</i> TAC • CFHT proposal referee 	
	Referee Service	2012 – present
	<ul style="list-style-type: none"> • ApJ, ApJ Letters, MNRAS Letters, A&A 	
	Organizing Seminars	
	<ul style="list-style-type: none"> • Co-organizer of MIT Brown Bag Lunch Seminar 	2018 – present
	<ul style="list-style-type: none"> • Co-organizer of MIT Postdoc Symposium 	May 2017
	<ul style="list-style-type: none"> • Organizer of Galaxy Cluster Meetings at MIT (with CfA and BU) 	2016 – present
	<ul style="list-style-type: none"> • Colloquium Committee, University of Toronto 	2015 – 2016
	<ul style="list-style-type: none"> • Co-organizer, “Galaxy Cluster Seminar Series,” McGill University 	2009
ADMIN ROLES	McGill Graduate Association of Physics Students (MGAPS) Society	
	<ul style="list-style-type: none"> • VP Secretary on the Executive board 	2008 – 2011
	<ul style="list-style-type: none"> • International Student Committee 	2010 – 2013
	<ul style="list-style-type: none"> • Salary Committee 	2010 – 2011
	McGill Post-Graduate Student Society (PGSS)	
<ul style="list-style-type: none"> • Physics Department Representative to the Council of the PGSS 	2010 - 2011	
REFERENCES	Professor Michael McDonald , Massachusetts Institute of Technology mcdonald@space.mit.edu <i>Prof. McDonald is my current postdoctoral advisor at MIT.</i>	
	Professor Howard Yee , University of Toronto hyee@astro.utoronto.ca <i>Prof. Yee was my postdoctoral advisor at University of Toronto.</i>	
	Professor Adam Muzzin , York University muzzin@yorku.ca <i>Prof. Muzzin is a co-PI of the SpARCS collaboration.</i>	
	Professor Tracy Webb , McGill University webb@physics.mcgill.ca <i>Prof. Webb was my PhD and MSc advisor at McGill.</i>	
	Professor Gillian Wilson , University of California, Riverside gillianw@ucr.edu <i>Prof. Wilson is a co-PI of the SpARCS collaboration.</i>	

JOURNAL PUBLICATIONS (FIRST AND SECOND AUTHOR)

- [1] **Noble, Allison**; Muzzin, A.; McDonald, M.; Rudnick, G.; Matharu, J.; Cooper, M. C.; Demarco, R.; Lidman, C.; Nantais, J.; van Kampen, E. Webb, T. M. A.; Wilson, G.; Yee, H. K. C. *Resolving CO (2-1) in $z \sim 1.6$ Gas-Rich Cluster Galaxies with ALMA: Rotating Molecular Gas Disks with Possible Signatures of Gas Stripping*. eprint arXiv:1809.03514. Accepted to the Astrophysical Journal. November 2018.
- [2] **Noble, Allison**; McDonald, M.; Muzzin, A.; Nantais, J.; Rudnick, G.; van Kampen, E.; Webb, T. M. A.; Wilson, G.; Yee, H. K. C.; Boone, K.; Cooper, M. C.; DeGroot, A.; Delahaye, A.; Demarco, R.; Foltz, R.; Hayden, B.; Lidman, C.; Manilla-Robles, A.; Perlmutter, S. *ALMA Observations of Gas-rich Galaxies in $z \sim 1.6$ Galaxy Clusters: Evidence for Higher Gas Fractions in High-density Environments*. The Astrophysical Journal Letters, Volume 842, Issue 2, article id. L21, 6 pp. June 2017.
- [3] **Noble, Allison**; Webb, T. M. A.; Yee, H. K. C.; Muzzin, A.; Wilson, G.; van der Burg, R. F. J.; Balogh, M. L.; Shupe, D. L. *The Phase Space of $z \sim 1.2$ SpARCS Clusters: Using Herschel to probe Dust Temperature as a Function of Environment and Accretion History*. The Astrophysical Journal, Volume 816, Issue 2, article id. 48, 14 pp. January 2016.
- [4] Webb, T. M. A.; **Noble, Allison**; DeGroot, A.; Wilson, G.; Muzzin, A.; Bonaventura, N.; Cooper, M.; Delahaye, A.; Foltz, R.; Lidman, C.; Surace, J.; Yee, H. K. C.; Chapman, S.; Dunne, L.; Geach, J.; Hayden, B.; Hildebrandt, H.; Huang, J.; Pope, A.; Smith, M. W. L.; Perlmutter, S.; Tudorica, A. *An Extreme Starburst in the Core of a Rich Galaxy Cluster at $z = 1.7$* . The Astrophysical Journal, Volume 809, Issue 2, article id. 173, 10 pp. August 2015.
- [5] **Noble, Allison**; Geach, J. E.; van Engelen, A. J.; Webb, T. M. A.; Coppin, K. E. K.; Delahaye, A.; Gilbank, D. G.; Gladders, M. D.; Ivison, R. J.; Omori, Y.; Yee, H. K. C. *A submillimetre-bright $z \sim 3$ overdensity behind a $z \sim 1$ supercluster revealed by SCUBA-2 and Herschel*. Monthly Notices of the Royal Astronomical Society: Letters, Volume 436, Issue 1, pp. L40-L44. November 2013.
- [6] **Noble, Allison**; Webb, T. M. A.; Muzzin, A.; Wilson, G.; Yee, H. K. C.; van der Burg, R. F. J. *A Kinematic Approach To Assessing Environmental Effects: Star-Forming Galaxies in a $z \sim 0.9$ SpARCS cluster using Spitzer 24 μm Observations*. The Astrophysical Journal. Volume 768, Issue 2, article id. 118, 13 pp. May 2013.
- [7] **Noble, Allison**; Webb, T. M. A.; Ellingson, E.; Faloon, A. J.; Gal, R. R.; Gladders, M. D.; Hicks, A. K.; Hoekstra, H.; Hsieh, B. C.; Ivison, R. J.; Lemaux, B. C.; Lubin, L. M.; O'Donnell, D. V.; Yee, H. K. C. *Submillimetre Source Counts in the Fields of High-Redshift Galaxy Clusters*. Monthly Notices of the Royal Astronomical Society, Volume 419, Issue 3, pp. 1983-2013. January 2012.

JOURNAL PUBLICATIONS (TOP TIER)

- [8] Bonaventura, N.; Webb, T. M. A.; Muzzin, A.; **Noble, Allison**; Geach, J. E.; Hezaveh, Y.; Lidman, C.; Wilson, G.; Yee, H. K. C.; Surace, J.; Shupe, D. *Red but not Dead: Unveiling the Star-Forming Far-Infrared Spectral Energy Distribution of SpARCS Brightest Cluster Galaxies at $0 < z < 1.8$* . Monthly Notices of the Royal Astronomical Society, Volume 469, Issue 2, p.1259-1281. August 2017.
- [9] Webb, Tracy M. A.; Lowenthal, James; Yun, Min; **Noble, Allison**; Muzzin, Adam; Wilson, Gillian; Yee, H. K. C.; Cybulski, Ryan; Aretxaga, I.; Hughes, D. H. *Detection of a Substantial Molecular Gas Reservoir in a Brightest Cluster Galaxy at $z = 1.7$* . The Astrophysical Journal Letters, Volume 844, Issue 2, article id. L17, 5 pp. August 2017.

- [10] Webb, T. M. A.; Muzzin, A.; **Noble, Allison**; Bonaventura, N.; Geach, J. E.; Hezaveh, Y.; Lidman, C.; Wilson, G.; Yee, H. K. C.; Surace, J.; Shupe, D. *The Star-Formation History of BCGs to $z = 1.8$ from the SpARCS/SWIRE Survey: Evidence for significant in-situ star formation at high-redshift*. The Astrophysical Journal. Volume 814, Issue 2, article id. 96, 12 pp. December 2015.

JOURNAL PUBLICATIONS (CO-AUTHOR)

- [11] Foltz, R.; Wilson, G.; Muzzin, A.; Cooper, M. C.; Nantais, J.; van der Burg, R. F. J.; Cerulo, P.; Chan, J.; Fillingham, S. P.; Surace, J.; Webb, T.; **Noble, Allison**; Lacy, M.; McDonald, M.; Rudnick, G.; Lidman, C.; Demarco, R.; Hlavacek-Larrondo, J.; Yee, H. K. C.; Perlmutter, S.; Hayden, B. *The Evolution of Environmental Quenching Timescales to $z \sim 1.6$* . eprint arXiv:1803.03305. Accepted to Astrophysical Journal. October 2018.
- [12] Balogh, Michael L.; Gilbank, David G.; Muzzin, Adam; Rudnick, Gregory; Cooper, Michael C.; Lidman, Chris; Biviano, Andrea; Demarco, Ricardo; McGee, Sean L.; Nantais, Julie B.; **Noble, Allison**; Old, Lyndsay; Wilson, Gillian; Yee, Howard K. C.; Bellhouse, Callum; Cerulo, Pierluigi; Chan, Jeffrey; Pintos-Castro, Irene; Simpson, Rane; van der Burg, Remco F. J.; Zaritsky, Dennis; Ziparo, Felicia; Alonso, Mara Victoria; Bower, Richard G.; De Lucia, Gabriella; Finoguenov, Alexis; Lambas, Diego Garcia; Muriel, Hernan; Parker, Laura C.; Rettura, Alessandro; Valotto, Carlos; Wetzell, Andrew. *Gemini Observations of Galaxies in Rich Early Environments (GOGREEN) I: survey description*. Monthly Notices of the Royal Astronomical Society, Volume 470, Issue 4, p.4168-4185. October 2017.
- [13] Delahaye, A. G.; Webb, T. M. A.; Nantais, J.; DeGroot, A.; Wilson, G.; Muzzin, A.; Yee, H. K. C.; Foltz, R.; **Noble, Allison**; Demarco, R.; Tudorica, A.; Cooper, M. C.; Lidman, C.; Perlmutter, S.; Hayden, B.; Boone, K.; Surace, J. *Galaxy Merger Candidates in High-redshift Cluster Environments*. The Astrophysical Journal, Volume 843, Issue 2, article id. 126, 9 pp. July 2017.
- [14] Nantais, J. B.; Muzzin, A.; van der Burg, R. F. J.; Wilson, G.; Lidman, C.; Foltz, R.; DeGroot, A.; **Noble, Allison**; Cooper, M. C.; Demarco, R. *Evidence for Strong Evolution in Galaxy Environmental Quenching Efficiency between $z = 2$ and $z = 1$* . Monthly Notices of the Royal Astronomical Society: Letters, Volume 465, Issue 1, p.L104-L108. February 2017.
- [15] Nantais, J. B.; van der Burg, R. F. J.; Lidman, C.; Demarco, R.; **Noble, Allison**; Wilson, G.; Muzzin, A.; Foltz, R.; DeGroot, A.; Cooper, M. C. *Stellar mass function of cluster galaxies at $z \sim 1.5$: evidence for reduced quenching efficiency at high redshift*. Astronomy & Astrophysics, Volume 592, id.A161, 13 pp. August 2016.
- [16] Balogh, M. L.; McGee, S. L.; Mok, A.; Muzzin, A.; van der Burg, R. F. J.; Bower, R. G.; Finoguenov, A.; Hoekstra, H.; Lidman, C.; Mulchaey, J. S.; **Noble, Allison**; Parker, L. C.; Tanaka, M.; Wilman, D. J.; Webb, T.; Wilson, G.; Yee, H. K. C. *Evidence for a change in the dominant satellite galaxy quenching mechanism at $z = 1$* . Monthly Notices of the Royal Astronomical Society, Volume 456, Issue 4, p.4364-4376. March 2016.
- [17] Muzzin, A.; van der Burg, R. F. J.; McGee, S. L.; Balogh, M.; Franx, M.; Hoekstra, H.; Hudson, M. J.; **Noble, Allison**; Taranu, D. S.; Webb, T.; Wilson, G.; Yee, H. K. C. *The Phase Space and Stellar Populations of Cluster Galaxies at $z \sim 1$: Simultaneous Constraints on the Location and Timescale of Satellite Quenching*. The Astrophysical Journal, Volume 796, Issue 1, article id. 65, 10 pp. November 2014.
- [18] Webb, T. M. A.; O'Donnell, D. V.; Yee, H. K. C.; Gilbank, D.; Coppin, C.; Ellingson, E.; Faloon, A.; Geach, J.; Gladders, M.; **Noble, Allison**; Muzzin, A.; Wilson, G.; Yan, R. *The Evolution of Dusty Star Formation in Galaxy Clusters to $z = 1$: Spitzer Infrared Observations of the First Red-Sequence Cluster Survey*. The Astronomical Journal, Volume 146, Issue 4, article id. 84, 13 pp. October 2013.

- [19] Lidman, C.; Iacobuta, G.; Bauer, A. E.; Barrientos, L. F.; Cerulo, P.; Couch, W. J.; Delaye, L.; Demarco, R.; Ellingson, E.; Faloon, A. J.; Gilbank, D.; Huertas-Company, M.; Mei, S.; Meyers, J.; Muzzin, A.; **Noble, Allison**; Nantais, J.; Rettura, A.; Rosati, P.; Snchez-Janssen, R.; Strazzullo, V.; Webb, T. M. A.; Wilson, G.; Yan, R.; Yee, H. K. C. *The importance of major mergers in the build up of stellar mass in brightest cluster galaxies at $z = 1$* . Monthly Notices of the Royal Astronomical Society, Volume 433, Issue 1, p.825-837. July 2013.
- [20] Faloon, A.; Webb, T. M. A.; Ellingson, E.; Yan, R.; Gilbank, D.; Geach, J.; **Noble, Allison**; Barrientos, L. F.; Yee, H. K. C.; Gladders, M.; Richard, J. *The Structure of the Merging RCS 231953+00 Supercluster at $z = 0.9$* . The Astrophysical Journal, Volume 768, Issue 2, article id. 104, 21 pp. May 2013.
- [21] Lidman, C.; Suherli, J.; Muzzin, A.; Wilson, G.; Demarco, R.; Brough, S.; Rettura, A.; Cox, J.; DeGroot, A.; Yee, H. K. C.; Gilbank, D.; Hoekstra, H.; Balogh, M.; Ellingson, E.; Hicks, A.; Nantais, J.; **Noble, Allison**; Lacy, M.; Surace, J.; Webb, T. *Evidence for significant growth in the stellar mass of brightest cluster galaxies over the past 10 billion years*. Monthly Notices of the Royal Astronomical Society, Volume 427, Issue 1, pp. 550-568. November 2012.
- [22] Muzzin, A.; Wilson, G.; Yee, H. K. C.; Gilbank, D.; Hoekstra, H.; Demarco, R.; Balogh, M.; van Dokkum, P.; Franx, M.; Ellingson, E.; Hicks, A.; Nantais, J.; **Noble, Allison**; Lacy, M.; Lidman, C.; Rettura, A.; Surace, J.; Webb, T. *The Gemini Cluster Astrophysics Spectroscopic Survey (GCLASS): The Role of Environment and Self-regulation in Galaxy Evolution at $z \sim 1$* . The Astrophysical Journal, Volume 746, Issue 2, article id. 188, 24 pp. February 2012.
- [23] Dellenbusch, K. E.; Gallagher, J. S.,III; Knezek, P. M.; **Noble, Allison**. *Deep Optical Imaging of Starbursting Transition Dwarf Galaxies*. The Astronomical Journal, Volume 135, Issue 1, pp. 326-332. January 2008.