

## Curriculum Vita

### ERICA ELLINGSON

Associate Professor, Dept. of Astrophysical and Planetary Sciences,  
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### EDUCATION

Ph.D. in Astronomy, University of Arizona, 1989  
B.S. in Physics, Massachusetts Institute of Technology 1984,

### EMPLOYMENT

2002-present: Associate Professor, Department of Astrophysics and Planetary Sciences,  
University of Colorado, Boulder  
2019-present: Director, First Year Seminar Program  
2018-2019, Associate Vice provost for Undergraduate Education  
2017-2019: Associate Chair, Department of Astrophysics and Planetary Sciences,  
University of Colorado, Boulder  
1993–present: Fellow, Center for Astrophysics and Space Astronomy University of  
Colorado  
1995–2001 Assistant Professor, Department of Astrophysics and Planetary Sciences,  
University of Colorado, Boulder  
2000–2002 Director, Sommers-Bausch Observatory, University of Colorado  
1994–1995: Visiting Assistant Professor, Dept. of Astronomy, New Mexico State  
University, Las Cruces, NM  
1992–1994: Research Associate, Center for Astrophysics and Space Astronomy  
University of Colorado, Boulder  
1990–1991: Research Associate, Dominion Astrophysical Observatory, National  
Research Council of Canada, Victoria, BC  
1988–1989: Data Analysis and Software Specialist, National Optical Astronomical  
Observatory, Tucson, AZ

### ACADEMIC COURSES TAUGHT

Original proposer and developer:

ASTR 3510 and 3520: 4-credit technical undergraduate laboratories for majors

ASTR 2840: Research Methods in Astronomy: course-based research

HON Co-Seminar: “Cosmology, Galileo and God,”

FYS (2017) “Sky Watching” (3-credit hands-on seminar)

ASTR 1200: Stars and Galaxies: large introductory course for non-majors

ASTR 2000; Ancient Astronomies; large course on cultural and archaeoastronomy

ASTR 2010: Modern Cosmology: Large introductory course for non-science majors

ASTR 5720: Galaxies,” graduate level

ASTR 5510: Astronomical Observations and Analysis, graduate level

## **STUDENT RESEARCH SUPERVISION**

### **Graduate Students:**

Aaron Lewis: Master's thesis advisor (1998), Ph.D. (2001) co-advisor with John Stocke  
Michael Harvanek (Ph.D. 2000) co-advisor with J. Stocke  
Glenn Laurent: Master's thesis (2001)  
Catherine Boone: Master's thesis (2001)  
Amalia Hicks: Ph.D. (2005)  
Amy Bender: MSc. (2006)  
Erin Zekis, MSc. (2011)  
Ashley Faloon, MSc.(2009), Ph.D. (2012), McGill University (co-advisor)  
Committee member of many MSc and Ph.D. thesis committees including those at U. Toronto, McGill University and the University of Southampton, UK.

### **Undergraduate Research Students and graduation date:**

Stephanie Fawcett (2005)  
Nils Alpers (2007)  
Tahlia DeMaio (2010)  
Rebecca Mickol (2010)  
Sarah Hampton (2010)  
Garret Ebelke (2010)  
Sean Peneyra (2011)  
Amber Hall (2013)  
Emma Bunnell (2013)  
Arnab Purkayast (2014)  
Brett Feldman (2015)  
Ezra Huscher (2018)  
KELT program: 8 students observe and analyze of exoplanet transit data (2015-present)  
Las Cumbres Observatory: analysis of imaging data as part of  
    ASTR 2840 Research Methods class (2016-2018)  
Honors Theses Committees

### **CURRENT DEPARTMENTAL SERVICE**

Chair, APS Instructor Search Committee  
Chair, Undergraduate Curriculum and Concerns Committee  
Observatories and Laboratories Oversight Committee  
Recruitment and Retention Committee  
APS Representative to the Arts & Sciences Council  
APS Representation to the Honors Council (Fall 2019)  
Director, CU Space, Technology and Astronomy Recruits Program  
APS Undergraduate mentor: 12 students  
Faculty Mentor, Assistant Professor Ben Brown

### **CURRENT UNIVERSITY SERVICE**

Arts & Sciences Diversity Committee  
Arts & Sciences Council Executive Committee  
Inclusive Excellence Steering Committee  
Space Minor Executive Committee, guest lecturer  
Faculty Associate, Center for Native and Indigenous Studies  
Faculty Associate, Center for the Study of Origins

## **PROFESSIONAL SERVICE**

### **Grant review, advisory committees and time allocation committees**

Chair, Apache Point Observatory student training advisory  
New Mexico State University Astronomy Department external evaluator,  
Gemini Observatory Advisory and Oversight Council  
Gemini Large Program Review  
Gemini Director Search and Evaluation Committee  
Hubble Space Telescope, Executive Committee and Panel Chair  
Chandra Space Telescope, User's Committee, "Pundit review" and Review Panel Chair  
Spitzer Space Telescope, Proposal Review Committee  
National Science Foundation, multiple stints as reviewer for proposal and fellowships  
National Optical Astronomical Observatories, large program and panel review chair  
National Optical Astronomical Observatories, Director Search and Evaluation Committee  
National Radio Astronomical Observatories, User Committee  
Referee for professional publications

## **RECENT GUEST LECTURES & OUTREACH**

2019: The Astronomy of Chaco Canyon, invited speaker at Chaco Culture National Historic Park, Chimney Rock National Monument, Denver Historical Museum, Archaeological Society of Colorado, Spirit Hound Distillery.

2019: "Patterns and Dimensions," invited speaker at the Boulder Museum of Contemporary Art.

2016-2019: Ancient Light, original planetarium multi-media show, presented at Fiske Planetarium ~4 times per year.

2018: "Dark Matter and Dark Energy," Shapley Guest speaker, University of Science, Philadelphia.

2017: "The Universe is Shakespeare's Time," invited speaker at the First Folio Opening Event.

2017: Dark matter and Dark energy," Chaco Culture National Park, Aztec Ruins National Monument

2012-present: Director of CU Science, Technology & Astronomy Recruits (CU STARS), organized student team visits to schools around Colorado, 3-4 events per year.

## **SELECTED GRANTS AND ALLOCATIONS**

### **National Science Foundation**

1997-2000: Cluster Influences on Galaxies at Intermediate Redshift: 240K

2003-2008 High Redshift Optically-Selected Galaxy Clusters: 460K

**Space Observatories:** Funded PI on multiple X-ray programs, including ROSAT, ASCA, Suzaku, XMM-Newton and Chandra. Chandra programs total more than 700 ksec as PI and co-I. Funded PI and co-I on multiple Hubble Space Telescope and Spitzer Space Telescope programs.

**Ground-based programs:** PI or primary co-I on 6-10-meter class telescope programs (Gemini, VLT, Magellan, Keck, Subaru, SALT, MMT), 3-4 meter class telescopes (APO, CFHT, KPNO and CTIO 4m) and smaller apertures. PI of VLA programs and co-I on submm observations.

### **Education and outreach grants:**

2016 CU Crowd-funding Campaign for Ancient Light, \$5K

2016 ASSETT Award for teaching with technology, \$10K

2016 IMPART Award to produce a multicultural planetarium , \$5K

2011-2019: CU Outreach Award, for outreach program for minority CU student to Colorado high schools, ~\$50K

2011, CU Foundation, established "Broadening Participation" fund via donations, \$2K

2006 Hubble Space Telescope E/PO Award: "Beyond Hubble's Tuning Fork," a program to develop interactive lessons on galaxy classification and evolution, \$40K

## **AWARDS AND RECOGNITION**

2019: Center for the Study of Origins research grant

2015: BFA Faculty Recognition Award

2012 Marinus Smith Award, University of Colorado

2012 University of Colorado LEAP Research Fellowship

2010 Astronomical Society of the Pacific Meeting plenary speaker: "Invisible Universe,"

2009: Co-author of the children's book "Max Goes to Jupiter," Young Voices Foundation Gold Winner, Silver Medal Winner, Nautilus Book Award; Finalist, Colorado Book Award; Finalist, Golden Duck Award. Read on the ISS for "Bedtime Stories from Space"

1996: Junior Faculty Development Award, U. Colorado for work related to the discovery of a proto-galaxy candidate

1994: Annie Jump Cannon Special Commendation Award

1993: Invited plenary speaker, 182nd Conference of the American Astronomical Society

## PUBLICATIONS IN REFEREED JOURNALS

Gilbank, D. G., Barrientos, L. Felipe; Ellingson, E., et al., "Spectroscopic characterization of galaxy clusters in RCS-1: spectroscopic confirmation, redshift accuracy, and dynamical mass-richness relation, 2018, MNRAS, 476, 1991

Collins, Karen A.; Collins, Kevin I.; Pepper, Joshua; Labadie-Bartz, Jonathan, et al., "The KELT Follow-Up Network and Transit False Positive Catalog: Pre-vetted False Positives for TESS," 2018, ApJ, in press.

Scott, Jennifer E.; Rafiee, Alireza; Bechtold, Jill; Ellingson, E.; Thibodeau, Christopher; Richmond, Michael, "Wide Field Multiband Imaging of Low Redshift Quasar Environments," 2015, ApJ, 800, 93

Bai, Lei; Yee, H. K. C.; Yan, Renbin; Lee, Eve; Gilbank, David G.; Ellingson, E.; Barrientos, L. F.; Gladders, M. D.; Hsieh, B. C.; Li, I. H., "The Inside-out Growth of the Most Massive Galaxies at  $0.3 < z < 0.9$ ," 2014, ApJ, 789, 134

Webb T. M. A., O'Donnell D., Yee H. K. C., Gilbank D., Coppin K., Ellingson E., Faloon A., Geach J. E., Gladders M., Noble A., 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" 2013, The Astronomical Journal 146 , 84

Andrews H., Barrientos L. F., Lopez S., Lira P., Padilla N., Gilbank D. G., Lacerna I., Maureira M. J., Ellingson E., Gladders M. D., Yee H. K. C., "Galaxy Clusters in the Line of Sight to Background Quasars. III. Multi-object Spectroscopy" 2013, The Astrophysical Journal 774 , 40

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 A., Nantais J., Rettura A., Rosati P., S&aacute;nchez-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  $z = 1$ " 2013, Monthly Notices of the Royal Astronomical Society 433 , 825

Hicks A. K., Pratt G. W., Donahue M., Ellingson E., Gladders M., B&ouml;ringer H., Yee H. K. C., Yan R., Croston J. H., Gilbank D. G., "The X-ray properties of optically selected clusters of galaxies" 2013, Monthly Notices of the Royal Astronomical Society 431 , 2542

Faloon A. J., Webb T. M. A., Ellingson E., Yan R., Gilbank D. G., Geach J. E., Noble A. G., Barrientos L. F., Yee H. K. C., Gladders M., Richard J., "The Structure of the Merging RCS 231953+00 Supercluster at  $z \sim 0.9$ " 2013, The Astrophysical Journal 768 , 104

Coppin, K. E. K., Geach, J. E., Webb, T. M. A., Faloon, A., Yan, R., O'Donnell, D., Ouellette, N., Egami, E., Ellingson, E., Gilbank, D., Hicks, A.,

Barrientos, L. F., Yee, H. K. C., Gladders, M., The Herschel Filament: A Signature of the Environmental Drivers of Galaxy Evolution during the Assembly of Massive Clusters at  $z = 0.9$ , 2012, The Astrophysical Journal, 749, L43

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, A., 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  $z \sim 1$ , 2012, The Astrophysical Journal, 746, 188

Suzuki, N., Rubin, D., Lidman, C., Aldering, G., Amanullah, R., Barbary, K., Barrientos, L. F., Botyanszki, J., Brodwin, M., Connolly, N., Dawson, K. S., Dey, A., Doi, M., Donahue, M., Deustua, S., Eisenhardt, P., Ellingson, E., Faccioli, L., Fadeyev, V., Fakhouri, H. K., Fruchter, A. S., Gilbank, D. G., Gladders, M. D., Goldhaber, G., Gonzalez, A. H., Goobar, A., Gude, A., Hattori, T., Hoekstra, H., Hsiao, E., Huang, X., Ihara, Y., Jee, M. J., Johnston, D., Kashikawa, N., Koester, B., Konishi, K., Kowalski, M., Linder, E. V., Lubin, L., Melbourne, J., Meyers, J., Morokuma, T., Munshi, F., Mullis, C., Oda, T., Panagia, N., Perlmutter, S., Postman, M., Pritchard, T., Rhodes, J., Ripoche, P., Rosati, P., Schlegel, D. J., Spadafora, A., Stanford, S. A., Stanishev, V., Stern, D., Strovink, M., Takanashi, N., Tokita, K., Wagner, M., Wang, L., Yasuda, N., Yee, H. K. C., Supernova Cosmology Project, T., The Hubble Space Telescope Cluster Supernova Survey. V. Improving the Dark-energy Constraints above  $z \gtrsim 1$  and Building an Early-type-hosted Supernova Sample, 2012, *The Astrophysical Journal*, 746, 85

Noble, A. G., Webb, T. M. A., Ellingson, E., Faloon, A. J., Gal, R. R., Gladders, M. D., Hicks, A. K., Hoekstra, H., Hsieh, B. C., Iverson, 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, 2012, *Monthly Notices of the Royal Astronomical Society*, 419, 1983

Hart, Q. N., Stocke, J. T., Evrard, A. E., Ellingson, E. E., Barkhouse, W. A., The Evolution of Radio Galaxies and X-Ray Point Sources in Coma Cluster Progenitors since  $z \sim 1.2$ , 2011, *The Astrophysical Journal*, 740, 59

Dawson, K. S., Aldering, G., Amanullah, R., Barbary, K., Barrientos, L. F., Brodwin, M., Connolly, N., Dey, A., Doi, M., Donahue, M., Eisenhardt, P., Ellingson, E., Faccioli, L., Fadeyev, V., Fakhouri, H. K., Fruchter, A. S., Gilbank, D. G., Gladders, M. D., Goldhaber, G., Gonzalez, A. H., Goobar, A., Gude, A., Hattori, T., Hoekstra, H., Huang, X., Ihara, Y., Jannuzi, B. T., Johnston, D., Kashikawa, K., Koester, B., Konishi, K., Kowalski, M., Lidman, C., Linder, E. V., Lubin, L., Meyers, J., Morokuma, T., Munshi, F., Mullis, C., Oda, T., Panagia, N., Perlmutter, S., Postman, M., Pritchard, T., Rhodes, J., Rosati, P., Rubin, D., Schlegel, D. J., Spadafora, A., Stanford, S. A., Stanishev, V., Stern, D., Strovink, M., Suzuki, N., Takanashi, N., Tokita, K., Wagner, M., Wang, L., Yasuda, N., Yee, H. K. C., Supernova Cosmology Project, T., An Intensive Hubble Space Telescope Survey for 1 Type Ia Supernovae by Targeting Galaxy Clusters, 2009, *The Astronomical Journal*, 138, 1271

Li, I. H., Yee, H. K. C., Ellingson, E., Individual and Group Galaxies in CNOC1 Clusters, 2009, *The Astrophysical Journal*, 698, 83

Girardi, M., Barrena, R., Boschin, W., Ellingson, E., Cluster Abell 520: a perspective based on member galaxies. A cluster forming at the crossing of three filaments?, 2008, *Astronomy and Astrophysics*, 491, 379

Hicks, A. K., Ellingson, E., Bautz, M., Cain, B., Gilbank, D. G., Gladders, M. G., Hoekstra, H., Yee, H. K. C., Garmire, G., Chandra X-Ray Observations of the 0.6 <math>z</math> <math>1.1</math> Red-Sequence Cluster Survey Sample, 2008, The Astrophysical Journal, 680, 1022

Loh, Y.-S., Ellingson, E., Yee, H. K. C., Gilbank, D. G., Gladders, M. D., Barrientos, L. F., The Color Bimodality in Galaxy Clusters since  $z \sim 0.9$ , 2008, The Astrophysical Journal, 680, 214

Cain, B., Gilbank, D. G., Bautz, M. W., Hicks, A., Yee, H. K. C., Gladders, M., Ellingson, E., Barrientos, L. F., Garmire, G. P., Evidence for Line-of-Sight Structure in a Comparison of X-Ray and Optical Observations of the High-Redshift Cluster RCS 043938-2904.7, 2008, The Astrophysical Journal, 679, 293

Gilbank, D. G., Yee, H. K. C., Ellingson, E., Hicks, A. K., Gladders, M. D., Barrientos, L. F., Keeney, B., A  $z = 0.9$  Supercluster of X-Ray Luminous, Optically Selected, Massive Galaxy Clusters, 2008, The Astrophysical Journal, 677, L89

Gilbank, D. G., Yee, H. K. C., Ellingson, E., Gladders, M. D., Loh, Y.-S., Barrientos, L. F., Barkhouse, W. A., The Red-Sequence Luminosity Function in Galaxy Clusters since  $z \sim 1$ , 2008, The Astrophysical Journal, 673, 742

Hicks, A. K., Ellingson, E., Hoekstra, H., Yee, H. K. C., Erratum: "Multiwavelength Mass Comparisons of the  $z \sim 0.3$  CNOC Cluster Sample" 2008, The Astrophysical Journal, 672, 1293

Cohn, J. D., Evrard, A. E., White, M., Croton, D., Ellingson, E., Red-sequence cluster finding in the Millennium Simulation, 2007, Monthly Notices of the Royal Astronomical Society, 382, 1738

Hicks, A. K., Ellingson, E., Hoekstra, H., Gladders, M., Yee, H. K. C., Bautz, M., Gilbank, D., Webb, T., Ivison, R., A Multiwavelength Analysis of the Strong Lensing Cluster RCS 022434-0002.5 at  $z=0.778$ , 2007, The Astrophysical Journal, 671, 1446

Gilbank, D. G., Yee, H. K. C., Ellingson, E., Gladders, M. D., Barrientos, L. F., Blindert, K., Spectroscopy of Moderately High Redshift RCS-1 Clusters, 2007, The Astronomical Journal, 134, 282

Muzzin, A., Yee, H. K. C., Hall, P. B., Ellingson, E., Lin, H., Near-Infrared Properties of Moderate-Redshift Galaxy Clusters: Luminosity Functions and Density Profiles, 2007, The Astrophysical Journal, 659, 1106

Hicks, A. K., Ellingson, E., Hoekstra, H., Yee, H. K. C., Multiwavelength Mass Comparisons of the  $z \sim 0.3$  CNOC Cluster Sample, 2006, The Astrophysical Journal, 652, 232



Williger, G. M., Heap, S. R., Weymann, R. J., Dav&eacute;, R., Ellingson, E., Carswell, R. F., Tripp, T. M., Jenkins, E. B., The Low-Redshift Ly&alpha; Forest toward PKS 0405-123, 2006, The Astrophysical Journal, 636, 631

Saintonge, A., Schade, D., Ellingson, E., Yee, H. K. C., Carlberg, R. G., Catalog of Galaxy Morphology in Four Rich Clusters: Luminosity Evolution of Disk Galaxies at  $0.33 < z < 0.83$ , 2005, The Astrophysical Journal Supplement Series, 157, 228

Hicks, A. K., Ellingson, E., Bautz, M., Yee, H. K. C., Gladders, M., Garmire, G., Chandra X-ray observations of newly discovered,  $z \sim 1$  clusters from the red-sequence cluster survey, 2005, Advances in Space Research, 36, 706

Barrientos, L. F., Gladders, M. D., Yee, H. K. C., Infante, L., Ellingson, E., Hall, P. B., Hertling, G., RCS 043938-2904.9: A New Rich Cluster of Galaxies at  $z=0.951$ , 2004, The Astrophysical Journal, 617, L17

Barrientos, L. F., Manterola, M. C., Gladders, M. D., Yee, H. K. C., Infante, L., Hall, P., Ellingson, E., Cluster Ellipticals at  $z \sim 1$  from the Red-Sequence Cluster Survey, 2004, Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution,

Yee, H. K. C., Ellingson, E., Correlations of Richness and Global Properties in Galaxy Clusters, 2003, The Astrophysical Journal, 585, 215

Ellingson, E., Galaxy evolution in clusters, 2003, Astrophysics and Space Science, 285, 9

Lewis, A. D., Ellingson, E., Stocke, J. T., New X-Ray Clusters in the Einstein Extended Medium Sensitivity Survey. II. Optical Properties, 2002, The Astrophysical Journal, 566, 771

Lewis, A. D., Stocke, J. T., Ellingson, E., Gaidos, E. J., New X-Ray Clusters in the Einstein Extended Medium-Sensitivity Survey. I. Modifications to the X-Ray Luminosity Function, 2002, The Astrophysical Journal, 566, 744

Gladders, M. D., Yee, H. K. C., Ellingson, E., Discovery of a  $z = 0.77$  Galaxy Cluster with Multiple, Bright, Strong-Lensing Arcs, 2002, The Astronomical Journal, 123, 1

Harvanek, M., Ellingson, E., Stocke, J. T., Rhee, G., A Study of 3CR Radio Galaxies from  $z = 0.15$  to  $z = 0.65$ . I. Evidence for an Evolutionary Relationship Between Quasars and Radio Galaxies, 2001, The Astronomical Journal, 122, 2874

Diaferio, A., Kauffmann, G., Balogh, M. L., White, S. D. M., Schade, D., Ellingson, E., The spatial and kinematic distributions of cluster galaxies in a  $\Lambda$ CDM universe: comparison with observations, 2001, Monthly Notices of the Royal Astronomical Society, 323, 999

Ellingson, E., Lin, H., Yee, H. K. C., Carlberg, R. G., The Evolution of Population Gradients in Galaxy Clusters: The Butcher-Oemler Effect and Cluster Infall, 2001, The Astrophysical Journal, 547, 609

Mohr, J. J., Reese, E. D., Ellingson, E., Lewis, A. D., Evrard, A. E., The X-Ray Size-Temperature Relation for Intermediate-Redshift Galaxy Clusters, 2000, The Astrophysical Journal, 544, 109

Yee, H. K. C., Morris, S. L., Lin, H., Carlberg, R. G., Hall, P. B., Sawicki, M., Patton, D. R., Wirth, G. D., Ellingson, E., Shepherd, C. W., The CNOC2 Field Galaxy Redshift Survey. I. The Survey and the Catalog for the Patch CNOC 0223+00, 2000, The Astrophysical Journal Supplement Series, 129, 475

van der Marel, R. P., Magorrian, J., Carlberg, R. G., Yee, H. K. C., Ellingson, E., The Velocity and Mass Distribution of Clusters of Galaxies from the CNOC1 Cluster Redshift Survey, 2000, The Astronomical Journal, 119, 2038

Borgani, S., Girardi, M., Carlberg, R. G., Yee, H. K. C., Ellingson, E., Velocity Dispersions of CNOC Clusters and the Evolution of the Cluster Abundance, 1999, The Astrophysical Journal, 527, 561

Balogh, M. L., Morris, S. L., Yee, H. K. C., Carlberg, R. G., Ellingson, E., Differential Galaxy Evolution in Cluster and Field Galaxies at  $z \sim 0.3$ , 1999, The Astrophysical Journal, 527, 54

Lewis, A. D., Ellingson, E., Morris, S. L., Carlberg, R. G., X-Ray Mass Estimates at  $Z \sim 0.3$  for the Canadian Network for Observational Cosmology Cluster Sample, 1999, The Astrophysical Journal, 517, 587

Carlberg, R. G., Yee, H. K. C., Morris, S. L., Lin, H., Ellingson, E., Patton, D., Sawicki, M., Shepherd, C. W., The Omega<sub>M</sub>-Omega<sub>Λ</sub> Dependence of the Apparent Cluster Omega, 1999, The Astrophysical Journal, 516, 552

Carlberg, R. G., Yee, H. K. C., Morris, S. L., Lin, H., Sawicki, M., Wirth, G., Patton, D., Shepherd, C. W., Ellingson, E., Schade, D., The CNOC2 field galaxy redshift survey, 1999, Royal Society of London Philosophical Transactions Series A, 357, 167

Hutchings, J. B., Morris, S. L., Carlberg, R., Yee, H. K. C., Ellingson, E., Abraham, R. G., Smecker-Hane, T. A., Galaxy evolution in the  $z = 0.4274$  cluster MS1621.5+2640., 1998, Journal of the Royal Astronomical Society of Canada, 92, 29

Morris, S. L., Hutchings, J. B., Carlberg, R. G., Yee, H. K. C., Ellingson, E., Balogh, M. L., Abraham, R. G., Smecker-Hane, T. A., Galaxy Evolution in the  $Z = 0.4274$  Cluster MS 1621.5+2640, 1998, The Astrophysical Journal, 507, 84

Balogh, M. L., Schade, D., Morris, S. L., Yee, H. K. C., Carlberg, R. G., Ellingson, E., The Dependence of Cluster Galaxy Star Formation Rates on the Global Environment, 1998, The Astrophysical Journal, 504, L75

Ellingson, E., Yee, H. K. C., Abraham, R. G., Morris, S. L., Carlberg, R. G., The CNOC Cluster Redshift Survey Catalogs. VI. MS 0015.9+1609 and MS 0451.5-0305, 1998, The Astrophysical Journal Supplement Series, 116, 247

Abraham, R. G., Yee, H. K. C., Ellingson, E., Carlberg, R. G., Gravel, P., The CNOC Cluster Redshift Survey Catalogs. V. MS 1224.7+2007 and MS 1512.4+3647, 1998, The Astrophysical Journal Supplement Series, 116, 231

Yee, H. K. C., Ellingson, E., Morris, S. L., Abraham, R. G., Carlberg, R. G., The CNOC Cluster Redshift Survey Catalogs. IV. MS 1358.4+6245 and MS 1008.1-1224, 1998, The Astrophysical Journal Supplement Series, 116, 211

Hutchings, J. B., Dewey, A., Chaytor, D., Ryneveld, S., Gower, A. C., Ellingson, E., Radio Maps of QSOs in Clusters, 1998, Publications of the Astronomical Society of the Pacific, 110, 111

Carlberg, R. G., Morris, S. L., Yee, H. K. C., Ellingson, E., Abraham, R., Gravel, P., Pritchet, C. J., Smecker-Hane, T., Hartwick, F. D. A., Hesser, J. E., Hutchings, J. B., Oke, J. B., Omega<sub>b</sub> via Oort's method., 1998, Journal of the Royal Astronomical Society of Canada, 92, 23

Ellingson, E., Yee, H. K. C., Abraham, R. G., Morris, S. L., Carlberg, R. G., Smecker-Hane, T. A., The CNOC Cluster Redshift Survey Catalogs. III. MS 1621.5+2640 and MS 0302.7+1658, 1997, The Astrophysical Journal Supplement Series, 113, 1

Balogh, M. L., Morris, S. L., Yee, H. K. C., Carlberg, R. G., Ellingson, E., Star Formation in Cluster Galaxies at  $0.2 < Z < 0.55$ , 1997, The Astrophysical Journal, 488, L75

Carlberg, R. G., Yee, H. K. C., Ellingson, E., Morris, S. L., Abraham, R., Gravel, P., Pritchet, C. J., Smecker-Hane, T., Hartwick, F. D. A., Hesser, J. E., Hutchings, J. B., Oke, J. B., The Average Mass Profile of Galaxy Clusters, 1997, The Astrophysical Journal, 485, L13

Wurtz, R., Stocke, J. T., Ellingson, E., Yee, H. K. C., The Canada-France-Hawaii Telescope Imaging Survey of BL Lacertae Objects. II. Clustering Environments, 1997, The Astrophysical Journal, 480, 547

Carlberg, R. G., Morris, S. L., Yee, H. K. C., Ellingson, E., Redshift Evolution of Galaxy Cluster Densities, 1997, The Astrophysical Journal, 479, L19

Shepherd, C. W., Carlberg, R. G., Yee, H. K. C., Ellingson, E., The Real Space and Redshift Space Correlation Functions at Redshift  $Z = 1/3$ , 1997, The Astrophysical Journal, 479, 82

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