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Education	Professors for the Future Fellow , UC DAVIS Training in teaching methods and course design. Design and execute project to enhance graduate/postdoctoral experience. Ph.D. Astronomy , CALIFORNIA INSTITUTE OF TECHNOLOGY <i>Thesis Topic</i> : The Northern Sky Optical Cluster Survey <i>Thesis Advisor</i> : Dr. S. George Djorgovski B.A. Astrophysics <i>Summa Cum Laude</i> COLUMBIA UNIVERSITY	2004 – 2005 2001 1994
Employment	Assistant Astronomer UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY Postdoctoral Scholar UNIVERSITY OF CALIFORNIA, DAVIS, DEPARTMENT OF PHYSICS Postdoctoral Scholar JOHNS HOPKINS UNIVERSITY, DEPT. OF PHYSICS AND ASTRONOMY	2006 – present 2003 – 2006 2000 – 2003
Honors	NASA Graduate Student Research Program Award Kingsley Fellowship National Science Foundation Fellowship	1998 – 2000 1998 1994 – 1996
Teaching	Instructor Astronomy 110 Laboratory • Overall instructor rating, S08: 4.89/5 Instructor Astronomy 110A Honors • Overall instructor rating, S09: 4.86/5; F09: 4.5/5; S10: 4.62/5 Instructor Astronomy 110 Graduate student 699 project advisor , IfA NSF REU Student Advisor NASA CAE Tier I & II Workshops • Improving the College Introductory Astronomy Survey Course for Non-Science Majors Through Active Learning	2007, 2008, 2011 S08 – S11 F11, S12 2008, 2010, 2012 2007, 2009 2007, 2009, 2012
Service & Outreach	Chair, Outreach Oversight Committee • Coordinate all IfA outreach activities • Oversee major exhibit installation at Hawaii Convention Center Friends of the IfA Faculty Chair • Recruitment and retention of donors with UH Foundation • In two years, increased donations to IfA from \$ 35,000 to over \$ 100,000. • Organize Frontiers of Astronomy Community Lecture Series, 5-6 talks annually. IfA Graduate Research Oversight Group member • Evaluate graduate student research proposals and projects. IfA Colloquium Committee member	Aug. 2011 - present July 2009 - present Fall 2010 - present Fall 2010 - present

IfA Faculty Representative for UHPA Fall 2009 - present

- Interface between IfA faculty/administration and UH faculty union.

IfA Awards Committee member Spring 2008 - Spring 2010

- Select faculty and students for nomination to national and local awards.

Research Highlights

- Extensive experience with HST, Spitzer and Chandra data; over 200 nights of single detector and mosaic CCD imaging; nearly 100 nights of ultislit spectroscopy with COSMIC (Palomar), LRIS and DEIMOS (Keck); near-IR imaging and spectroscopy with WIRC (Palomar), FLAMINGOS (KPNO), ULBCam (UH 2.2m), WFCAM (UKIRT), NIRSPEC (Keck) and MOIRCS (Subaru). • Multi-wavelength imaging and spectroscopic study of the Cl1604 supercluster at $z = 0.9$, the largest and best mapped structure at such high redshift (Gal et al. 2004, 2008, press release).
- Co-PI of the ORELSE Survey: Observations of Redshift Evolution in Large Scale Environments, a multi-wavelength study of galaxy evolution in superclusters and filaments around 20 known $z > 0.6$ clusters (Lubin, Gal et al. 2009).
- Coordination of the DPOSS survey, including processing of 2000 digitized plate scans for DPOSS, database maintenance and survey calibration. Provided oversight and training of numerous undergraduate students.
- Verification, documentation and preparation of SDSS Early Data Release.
- First optical identification of a gamma-ray burst (Kulkarni et al. 199; press release) and connection with supernovae (Bloom et al. 2005, press release).
- Created the Northern Sky Optical Survey, a catalog of $\sim 16,000$ galaxy clusters over the northern sky. Based on Second Palomar Sky Survey, this was the largest such catalog at the time (Gal et al. 2009, 2004, 2003).
- Largest studies of compact and fossil groups from DPOSS (La Barbera et al. 2009, de Carvalho et al. 2005, Iovino et al. 2003).

Selected Publications

- Lemaux, B. C. ; **Gal, R. R.** et al. “*The Assembly of the Red Sequence at $z \sim 1$: The Color and Spectral Properties of Galaxies in the Cl1604 Supercluster,*” 2012, ApJ, 745, 106
- Swindle, R.; **Gal, R. R.**; de Carvalho, R. R. & La Barbera, F. “*SPIDER - V. Measuring Systematic Effects in Galaxy Stellar Masses from Photometric SED Fitting,*” 2011, AJ, 142, 118
- Lubin, L. M., **Gal, R. R.** et al. “*The Observations of Redshift Evolution in Large Scale Environments (ORELSE) Survey I.*” 2009, AJ, 137, 4867
- **Gal, R. R.** et al. “*The Northern Sky Optical Cluster Survey III: A Cluster Catalog Covering Pi Steradians,*” 2009, AJ, 137, 2981
- **Gal, R. R.** et al. “*The Complex Structure of the Cl 1604 Supercluster at $z \sim 0.9,$ ” 2008, ApJ, 684, 10*

Grants

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| R. R. Gal et al. – Spitzer: Cycle 2 Archival | PI, \$66,835 |
| L. M. Lubin, R. R. Gal et al. – Spitzer Cycle 3 | co-I, \$31,600 |
| L. M. Lubin, R. R. Gal et al. – joint HST proposal, | co-I, \$49,445 |
| L. M. Lubin, C. Fassnacht, R. R. Gal – Chandra Cycle 9 | co-I, \$17,500 |
| L. M. Lubin, R. R. Gal et al. – Spitzer Cycle 5 | co-I, \$15,000 |
| L. M. Lubin, D. Kocevski, R. R. Gal et al. – Chandra Cycle 10 | co-I, \$15,000 |
| Gal, R. R. et al. – Spitzer Cycle 6 | PI, \$83,500 |

References

Dr. Rolf-Peter Kudritzki

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Complete Bibliography and Telescope Allocations

Refereed Publications

56. **Gal, R. R.**, Lemaux, B. C., Lubin, L. M. et al. “*Cl0910: A Pre-Bullet Cluster at $z = 1.1$,*” 2012, ApJ, *in prep*
55. **Gal, R. R.**, Lubin, L. M., Lemaux, B. C., Kocevski, D. & Squires, G. K. “*A Supercluster at $z \sim 0.73$ Discovered in the ORELSE Survey,*” 2012, ApJ, *in prep*
54. Rumbaugh, N., Kocevski, D., **Gal, R. R.**, Lemaux, B. C., , Lubin, L. M., Fassnacht, C. D., & Squires, G. K. “*The Evolution and Environment of X-ray Emitting Active Galactic Nuclei in High-Redshift Large Scale Structures,*” 2011, ApJ, *in press*
53. Lemaux, B. C., **Gal, R. R.**, Lubin, L. M., Kocevski, D. & Squires, G. K. “*The Assembly of the Red Sequence at $z \sim 1$: The Color And Spectral Properties of Galaxies in the Cl1604 Supercluster,*” 2011, ApJ, 745, 106
52. Noble, A.G.; Webb, T.M.A.;; Gal, R. R. “*Submillimeter Source Counts in the Fields of High Redshift Galaxy Clusters,*” 2011, ApJ, *in press*
51. Swindle, R.; **Gal, R. R.**; de Carvalho, R. R. & La Barbera, F. “*SPIDER - V. Measuring Systematic Effects in Galaxy Stellar Masses from Photometric SED Fitting,*” 2011, AJ, 142, 118
50. Kocevski, D. D., Lemaux, B. C., Lubin, L. M., Shapley, A. E., **Gal, R. R.** & Squires, G. K. “*The Origin of [OII] Emission in Recently Quenched AGN Hosts,*” 2011, ApJ, 737, 38
49. Kocevski, D. D., Lemaux, B. C., Lubin, L. M., **Gal, R. R.**, McGrath, E. J., Fassnacht, C. D., Squires, G. K., Surace, J. A., & Lacy, M. “*Obscured Starburst Activity in High Redshift Clusters and Groups,*” 2011, ApJ, 736, 38
48. De Filippis, E.; Paolillo, M.; Longo, G.; La Barbera, F.; de Carvalho, R. R.; **Gal, R.** “*The Luminosity Function of the NoSOCS Galaxy Cluster Sample.*” 2011, MNRAS, 414, 2771
47. Vasconcellos, E. C., de Carvalho, R. R., **Gal, R. R.**, La Barbera, F., Campos Velho, H. F. et al. “*Decision Trees Applied to Star-Galaxy Separation,*” 2011, AJ, 141, 189
46. Soares-Santos, M., De Carvalho, R. R., Annis, J. T., **Gal, R. R.**, La Barbera, F., Lopes, P. A. A., Wechsler, R. H., Busha, M. T. & Gerke, B. “*The Voronoi Tessellation Cluster Finder in 2+1 Dimensions,*” 2011, ApJ, 727, 45
45. La Barbera, F., De Carvalho, R. R., De La Rosa, I. G., **Gal, R. R.**, Swindle, R. & Lopes, P. A. A. “*SPIDER IV: Optical and NIR Color Gradients in Early-Type Galaxies: New Insights into Correlations With Galaxy Properties,*” 2010, AJ, 140, 1528
44. Lemaux, B. C., Lubin, L. M., Shapley, A., Kocevski, D, **Gal, R. R.** & Squires, G. K. “*The Origin of [OII] in Post-Starburst and Red Sequence Galaxies in High Redshift Clusters,*” 2010, ApJ, 716, 970
43. de Carvalho, R. R., **Gal, R. R.**, Velho, H. C., Capelato, H. V., La Barbera, F., Charles, E., Rocha, R., Moreira, J. L. K., Lopes, P. A. A. & Santos, M. S. “*The Virtual Observatory - A New Era for Astronomy,*” 2010, Journal of Computational Interdisciplinary Sciences, 1, 187

42. Kocevski, D. D., Lubin, L. M., Lemaux, B. C., **Gal, R. R.**, Fassnacht, C. D., Lin, R. & Squires, G. K.. “*No Evidence of Quasar-Level Feedback in a Four-Way Group Merger at $z \sim 0.84$,*” 2009, ApJ, 703, 33
41. Kocevski, D. D., Lubin, L. M., Lemaux, B. C., **Gal, R. R.**, Fassnacht, C. D., Lin, R. & Squires, G. K.. “*Properties of Galaxies Hosting X-ray-selected Active Galactic Nuclei in the CL1604 Supercluster at $z = 0.9$,*” 2009, ApJ, 700, 901
40. Lemaux, B. C., Lubin, L. M., Sawicki, M., Martin, C., Lagattuta, D., **Gal, R. R.**, Kocevski, D., Fassnacht, C. D. & Squires, G. K. “*Serendipitous Discovery of a Large Overdensity of Ly- α Emitters at $z=4.8$ in the CL1604 Supercluster Field,*” 2009, ApJ, 700, 20
39. Lubin, L. M., **Gal, R. R.**, Lemaux, B. C., Kocevski, D. & Squires, G. K. “*The Observations of Redshift Evolution in Large Scale Environments (ORELSE) Survey : I. The Survey Design and First Results on Cl 0023+0423 at $z = 0.84$ and RX J1821.6+6827 at $z = 0.82$,*” 2009, AJ, 137, 4867
38. La Barbera, F, de Carvalho, R. R., de la Rosa, I., Sorrentino, G., **Gal, R. R.** & Kohl, J. M. “*On the Nature of Fossil Galaxy Groups: Are they really fossils ?,*” 2009, AJ, 137, 3942
37. **Gal, R. R.**, Lopes, P. A. A., de Carvalho, R. R., Kohl-Moreira, J. L., Capelato, H. V. & Djorgovski, S. G. “*The Northern Sky Optical Cluster Survey III: A Cluster Catalog Covering Pi Steradians,*” 2009, AJ, 137, 2981
36. Kocevski, D., Lubin, L. M., **Gal, R. R.**, Lemaux, B. C., Fassnacht, C. D. & Squires, G. K. “*Chandra Observations of the CL1604 Supercluster at $z = 0.9$: Evidence for an Overdensity of Active Galactic Nuclei,*” 2009, ApJ, 690, 295
35. **Gal, R. R.**, Lemaux, B. C., Lubin, L. M., Kocevski, D. & Squires, G. K. “*The Complex Structure of the Cl 1604 Supercluster at $z \sim 0.9$,*” 2008, ApJ, 684, 10
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32. Fassnacht, C. D., **Gal, R. R.**, Lubin, L. M., McKean, J. P., Squires, G. K., & Readhead, A. C. S. “*Mass Along the Line of Sight to the Gravitational Lens B1608+656: Galaxy Groups and Implications for H_0 ,*” 2006, ApJ, 642, 30
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25. **Gal, R. R.**, de Carvalho, R. R., Odewahn, S. C., Djorgovski, S. G., Mahabal, A., Brunner, R. J., & Lopes, P. A. A., “*The Digitized Second Palomar Observatory Sky Survey (DPOSS) II: Photometric Calibration,*” 2004, AJ, 128, 3082
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21. **Gal, R. R.** & Lubin, L. M., “*Spectroscopic Confirmation of the Cl 1604 Supercluster at $z \sim 0.9$,*” 2004, ApJ, 607, L1
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18. Brunner, R. J. et al. , “*Peculiar Broad Absorption Line Quasars Found in The Digitized Palomar Observatory Sky Survey,*” 2003, AJ, 126, 53
17. Iovino, A., de Carvalho, R. R., **Gal, R. R.**, Odewahn, S. C., Lopes, P. A. A., Mahabal, A., & Djorgovski, S. G., “*A New Sample of Distant Compact Groups from the Digitized Second Palomar Observatory Sky Survey,*” 2003, AJ, 125, 1660
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15. Puddu, E., De Filippis, E., Longo, G., Andreon, S., & **Gal, R. R.**, “*The multiplicity function of galaxies,*” 2003, A&A, 403, 73
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3. Djorgovski, S. G. et al. “*The optical counterpart to the gamma-ray burst GRB 970508,*” 1997, Nature, 387, 876
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36. Gal, R. R.; Lubin, L. M.; Lemauc, B. C.; Kocevski, D. D. & Squires, G. K. “*ORELSE meets SERVS: Galaxy Evolution and Environment*”. 2011, SERVS workshop, IAP.
35. Lemaux, Brian; Lubin, L. M.; Gal, R. R.; Kocevski, D. D.; Fassnacht, C. D.; Squires, G. K.; Surace, J.; Lacy, M “*The Assembly of the Red Sequence at $z = 1$: Galaxy Transformation in High-Redshift Groups and Clusters.*,” 2011, AAS 217, 430.25
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32. Gal, R. “*Galaxy Evolution in Large Scale Structures at $z \sim 1$* ”, 2010, From Galaxy clusters: Observations, Physics and Cosmology, Garching, Germany.
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29. Gal, R. R. et al. “*AGN in Large Structures at $z \sim 1$.*” 2009, IAU S267
28. Kocevski, D. et al. “*Investigating AGN Feedback as a Driver of Galaxy Evolution in High Redshift Large-Scale Structures.*,” 2009, AAS 213
27. Lemaux, B. C. et al. “*Discovery of a Population of Lyman- α Emitters at $z = 4.8$ in the Cl1604 Supercluster Field.*,” 2009, AAS 213
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25. Gal, Lubin, L. M. & Gal, R. R. “*The ORELSE Survey.*,” 2007, in “*Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later*”, Sesto, Italy
24. Gal, R. R. et al. “*A Complex Supercluster at $z=0.9$: Multiwavelength Observations of Cl1604*” 2007, American Astronomical Society Meeting, 210
23. Gal, R. R. & Lubin, L. M., “*The ORELSE Survey.*,” 2006, IAU Symposium 235
22. Gal, R. R., Lubin, L. M. & Squires, G. K, “*Going to Extremes: The NEP5281 and Cl0023 Clusters at $z=0.8$.*,” 2006, American Astronomical Society Meeting, 207
21. Lubin, L. M., Gal, R. R. & Squires, G. K, “*The High Redshift Large Scale Structure Survey.*,” 2006, American Astronomical Society Meeting, 207
20. Gal, R. R. & Lubin, L. M., “*Exploring the Cl 1604 Supercluster at $z=0.9$.*,” 2005, American Astronomical Society Meeting, 205
19. Lubin, L. M., Gal, R. R., Squires, G. K. & Papenkova, M., “*Latest Results from the High-Redshift Large Scale Structure Survey.*,” 2005, American Astronomical Society Meeting, 205

18. Gal, R. R. et al. , “*A New Galaxy Cluster Survey for the Northern Sky*,” 2004, in Clusters of Galaxies, from the Carnegie Observatories Centennial Symposia
17. Gal, R. R. & de Carvalho, R. R., “*The Northern Sky Optical Cluster Survey: Towards the Mass Function*,” 2002, American Astronomical Society Meeting, 201
16. Gal, R. R. et al. , “*20,000 Galaxy Clusters From DPOSS*,” 2002, American Astronomical Society Meeting, 200
15. Djorgovski, S. G. et al. “*The Digital Palomar Observatory Sky Survey (DPOSS): General Description and the First Public Data Release*,” 2001, American Astronomical Society Meeting, 200
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8. Castro, S., Djorgovski, S. G., Brunner, R., Mahabal, A., Gal, R. R., de Carvalho, R. R., & DPOSS Team “*Evolution of High Column Density Absorbers in Spectra of QSO at $z \approx 4$ Selected from DPOSS*,” 2000, American Astronomical Society Meeting 197, #03.10, 197, 0310
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4. Odewahn, S. C., Djorgovski, S. G., Brunner, R., Gal, R. R., & de Carvalho, R. R. “*Galaxy Number Counts in 1000 sq.deg. of the Digital Palomar Observatory Sky Survey (DPOSS)*,” 1999, American Astronomical Society Meeting 194, #04.13, 194, 0413

3. Gal, R. R., Odewahn, S. C., Djorgovski, S. G., Brunner, R. J., & de Carvalho, R. R. “*Photometric Redshifts for DPOSS Galaxy Clusters at $z < 0.4$* ,” 1999, Photometric Redshifts and the Detection of High Redshift Galaxies, ASP Conference Series, Vol. 191, Weymann, R., Storrie-Lombardi, L., Sawicki, M. & Brunner, R., eds.
2. Djorgovski, S. G., Gal, R. R., Odewahn, S. C., de Carvalho, R. R., Brunner, R., Longo, G., & Scaramella, R. “*The Palomar Digital Sky Survey (DPOSS)*,” 1998, Wide Field Surveys in Cosmology, 14th IAP meeting held May 26-30, 1998, Paris. Publisher: Editions Frontieres. ISBN: 2-8 6332-241-9, p. 89., 89
1. Gal, R. & Djorgovski, S. G. “*The Possible Redshift Clumping of Damped Lyman-alpha Absorbers*,” 1997, ASP Conf. Ser. 114: Young Galaxies and QSO Absorption-Line Systems, 79

Invited Talks, Reviews & Lectures

The Brazilian Virtual Observatory: A New Era For Astronomy,
White Paper for the Brazilian Ministry of Science & Technology, 2009

Optical Detection & Properties of Galaxy Clusters,
Guillermo Haro Advanced Summer School: A Pan-Chromatic View of Clusters of Galaxies and the Large-Scale Structure, Mexico, 2005

Galaxies Like to Live Together,
What Physicists Do series, Sonoma State, 2004

Galaxy Clusters From DPOSS,
Tracing Cosmic Evolution with Galaxy Clusters, Marseilles, 2001

The Northern Sky Optical Cluster Survey,
in the Sky, MPE-Garching, 2000

The Northern Sky Optical Cluster Survey,
Observatório Nacional, Brazil, 1999

Grants & Telescope Time Allocations 1995-present

Infrared

- S. G. Djorgovski, M. Pahre, **R. R. Gal**, K. Banas, *Protogalaxies*, Keck 10-m : 2 nights NIRC (1997)
- S. G. Djorgovski, A. Readhead, K. Banas, R. de Carvalho, **R. R. Gal**, *Is There a Missing Population of Dust-Obscured Quasars?*, Palomar 60-in : 4 nights IRCAM (1997)
- S. G. Djorgovski, K. Banas, R. de Carvalho, **R. R. Gal**, *Infrared Photometry of $z \lesssim 4$ Quasars*, Palomar 60-in : 2 nights IRCAM (1997)
- G. K. Squires, L. M. Lubin, **R. R. Gal**, L. Yan, M. Lacy, *Building a Supercluster: The Cl1604 Supercluster at $z=0.9$* , Palomar 200-in : 2 nights WIRC (2006)
- R. R. Gal**, L. M. Lubin, G. K. Squires, L. Yan *The Stellar Content of the Cl1604 Supercluster at $z=0.9$* , KPNO 4-m : 3 nights FLAMINGOS (2006)
- G. K. Squires, L. M. Lubin, **R. R. Gal**, L. Yan, M. Lacy, *Near-IR Imaging for the ORELSE Survey*, Palomar 200-in : 5 nights WIRC (2006-2007)
- R. R. Gal**, L. M. Lubin & A. E. Shapley, *Near-IR Spectroscopy in the Cl1604 Supercluster*, Subaru: 0.5 nights MOIRCS (2007)
- L. M. Lubin, A. E. Shapley, & **R. R. Gal**, *Near-IR Spectroscopy in the Cl1604 Supercluster*, Keck: 4 nights NIRSPEC (2007-2009)
- R. R. Gal** & L. M. Lubin, *Near-IR Imaging for the ORELSE Survey*, UKIRT: 10 nights WFCAM (2007-2011)
- R. R. Gal**, F. La Barbera & R. R. de Carvalho, *Optical-IR Color Gradients in Cluster Ellipticals*, UH 2.2m: 14 nights ULBCam (2007)
- L. M. Lubin, B. C. Lemaux, **R. R. Gal**, A. E. Shapley, **R. R. Gal** & D. Kocevski *The Origin of [OII] Emission in Elliptical-like Galaxies*, Keck: 3 nights NIRSPEC (2007-2009)
- R. R. Gal** *Near-IR Imaging for the ORELSE Survey*, CFHT: 2 nights WirCAM (2011-2012)

Optical

- S. G. Djorgovski, M. Pahre, **R. R. Gal**, K. Banas, *Protogalaxies*. Keck 10-m : 3 nights (1997)
- S. G. Djorgovski, K. Banas, R. de Carvalho, **R. R. Gal**, *Optical Photometry of $z \lesssim 4$ Quasars*, Palomar 60-in : 2 nights (1997)
- S. C. Odewahn, **R. R. Gal**, S. G. Djorgovski, *A Systematic Survey for Compact Extragalactic Objects*, Palomar 200-in : 4 nights (1998-1999)
- R. R. Gal**, S. G. Djorgovski, R. de Carvalho, *Imaging of DPOSS Cluster Candidates*, Palomar 60-in : 60 nights (1996-2000)

R. R. Gal, S. G. Djorgovski, R. de Carvalho, *Spectroscopy of DPOSS Cluster Candidates*, Palomar 200-in : 28 nights (1996-2000)

S. G. Djorgovski, **R. R. Gal**, R. de Carvalho, *Calibration of DPOSS*, Palomar 60-in : 150 nights (1995-2000)

S. G. Djorgovski, S. C. Odewahn, **R. R. Gal**, *Direct Identification of Damped Ly- α Galaxies*, Keck 10-m : 2 nights (1998)

R. de Carvalho, **R. R. Gal**, D. Frayer, *Spectroscopy of Wolf-Rayet Galaxies*, Palomar 200-in : 2 nights (1999)

R. de Carvalho, **R. R. Gal**, D. Frayer, *UBVRIH α Imaging of Wolf-Rayet Galaxies*, Palomar 60-in : 5 nights (1999)

S. C. Odewahn, **R. R. Gal**, *The Comoving Bar Formation Rate: Clues to Disk Galaxy Evolution?*, Keck 10-m : 1 night (1999)

S. G. Djorgovski, **R. R. Gal**, S. C. Odewahn, R. Brunner *Quasar-Marked Protoclusters at $z > 4$* , Keck 10-m : 8 nights (1998-2000)

R. Brunner, S. C. Odewahn, **R. R. Gal**, *An Old cD Galaxy and Associated Cluster at $z=2.05$* , Keck 10-m : 2 nights (1999)

L. M. Lubin, **R. R. Gal**, R. Brunner, P. M. Ricker, *Large Scale Structure at $z = 0.9$* , Keck 10-m : 4.5 nights (2003-2005)

L. M. Lubin, **R. R. Gal**, G. Squires, I. Gioia, C. Mullis, *High-Redshift Clusters from the ROSAT North Ecliptic Pole Survey*, Keck 10-m : 5 nights (2004-2006)

G. Squires, L. M. Lubin, **R. R. Gal**, R. Brunner, P. M. Ricker, *A Systematic Search for Large Scale Structure at $z > 0.5$* , Palomar 200-in : 19 nights (2004-2007)

L. M. Lubin, **R. R. Gal**, J. S. Mulchaey, *Galaxy Evolution in Moderate-Redshift, X-ray-Selected Groups*, Keck 10-m : 2.5 nights (2004-2006)

R. R. Gal, R. de Carvalho & C. D. Fassnacht, *A Spectroscopic Survey of $z \sim 0.2$ Compact Groups*, Lick 3-m : 16 nights (2005-2006)

L. M. Lubin, **R. R. Gal**, G. K. Squires, *The High Redshift Large Scale Structure Survey*, Keck 10-m : 4.5 nights (2005-2006)

R. R. Gal & L. M. Lubin, *Spectroscopy for the ORELSE Survey*, Keck 10-m : 14.5 nights (2006-2011)

R. R. Gal *Imaging for the ORELSE Survey*, Subaru 8-m : 2.5 nights (2007-2010)

Space-Based

S. G. Djorgovski, S. Castro, P. Côté, **R. R. Gal**, A. Mahabal, G. Meylan & R. Rich, *Dynamical Correlations for Globular Clusters in the Local Group Galaxies: Clues About Their Formation*, HST: Cycle 8 Archival

- L. M. Lubin, **R. R. Gal** & J. S. Mulchaey, *A Detailed X-ray Study of a Supercluster at $z \sim 0.9$* , XMM: AO-4
- R. R. Gal**, I. F. de Fernandes, A. Garcia-Rissmann & R. R. de Carvalho, *Gas, Dust and Star Formation in Wolf-Rayet Galaxies*, Spitzer: Cycle 2 Archival (PI, \$66,835)
- L. M. Lubin, **R. R. Gal**, J. S. Mulchaey, J. P. McKean & C. D. Fassnacht, *The Active Galaxy Population in a Supercluster at $z \sim 0.9$* , Chandra: Cycle 7 (VLA joint proposal)
- L. M. Lubin, **R. R. Gal** & J. S. Mulchaey, *A Detailed Study of an Optically-Selected, High-Redshift Cluster of Galaxies: Anatomy of a Merger*, XMM: AO-5
- D. Pooley et al., *The Galaxy Cluster Environment of Short-Duration Gamma Ray Bursts*, XMM : AO-5
- L. M. Lubin, **R. R. Gal**, G. K. Squires, L. Yan & M. Lacy, *Mixing It Up: Stars, Gas, AGN and Starbirth in a Supercluster at $z=0.9$* , Spitzer: Cycle 3 (29.6 hours [co-I:\$31,600]; joint HST proposal, 30 orbits [co-I: \$49,445])
- L. M. Lubin, C. Fassnacht, D. Kocevski, **R. R. Gal** *The Active Galaxy Population in a Supercluster at $z = 0.75$* , Chandra: Cycle 9 (VLA joint proposal) [co-I: \$17,500]
- L. M. Lubin, **R. R. Gal**, G. K. Squires, L. Yan & M. Lacy, *Exploring the Web : Galaxy Evolution in High-Redshift Superclusters*, Spitzer:Cycle 5 [co-I: \$15,000]
- L. M. Lubin, D. Kocevski, **R. R. Gal**, C. Fassnacht, N. Miller, I. Gioia, B. Lemaux *Local versus Large Scale : The Active Galaxy Population in High-Redshift Clusters*, Chandra: Cycle 10 (VLA joint proposal) [co-I: \$15,000]
- Gal, R. R.**, Kocevski, D., Lacy, M., Lemaux, B., Lubin, L., Squires, G. & Surace, J. *The IRAC-ORELSE Survey: Galaxy Masses in Large Scale Structures at $z \sim 1$* , Spitzer: Cycle 6 [PI: \$83,500]