

Samir Salim

CONTACT INFORMATION	National Optical Astronomy Observatory 950 N. Cherry Avenue Tucson, AZ 85719 USA	<i>Voice:</i> (520) 318-8503 <i>Fax:</i> (520) 318-8360 <i>E-mail:</i> samir@noao.edu
IMMIGRATION STATUS	Permanent Resident	
RESEARCH INTERESTS	Galaxy evolution (observational) <ul style="list-style-type: none">• Galaxy bimodality and the role of AGN• Systematics of star formation rate indicators• SED fitting of galaxies• Galaxy surveys; data mining	
EDUCATION	The Ohio State University , Columbus, Ohio Ph.D., Astronomy (2002) <ul style="list-style-type: none">• Applications of High-resolution Astrometry to Galactic Studies• Advisor: Professor Andrew Gould M.S., Astronomy (2000) University of Belgrade , Serbia B.S., Astrophysics (1996) <ul style="list-style-type: none">• Broad Emission-line Regions in Seyfert 1 Galaxies	
APPOINTMENTS	National Optical Astronomy Observatory , Tucson, Arizona Postdoctoral researcher (2006–present) University of California, Los Angeles Postdoctoral researcher (2002–2006)	
AWARDS	The Ohio State University, University Fellowship (1997–1998)	
PROFESSIONAL SERVICE AND MEMBERSHIPS	Referee: Astrophysical Journal, Astronomical Journal, Monthly Notices, Astronomy and Astrophysics (2002–present) Local Organizing Committee, Massive Galaxies Through Cosmic Time, Tucson, AZ, 2006 Member: American Astronomical Society (1999–present)	
PROFESSIONAL COLLABORATIONS	GOODS/FIDEL collaboration (Great Observatories Origins Deep Survey/ Far Infrared Deep Legacy), HST/Spitzer legacy programs (2006–present) AEGIS collaboration (All-Wavelength Extended Groth Strip International Survey) (2004–present) GALEX (Galaxy Evolution Explorer) Science Team member (2002–2007)	

RESEARCH GRANTS

GALEX Cycle 5, GALEX Deep Survey - Calibration of Star Formation and the Transitional Galaxies at $z \sim 0.8$ (PI), 2008

Herschel Cycle 1, The Great Observatories Origins Deep Survey: Far Infrared Imaging with Herschel (co-I), 2008

HST Cycle 16, HST Imaging of UV Emission in Quiescent Early-type Galaxies (co-I), 2007

HST Cycle 15, High-Resolution Imaging of Nearby Lyman Break Galaxy Analogs (co-I), 2006

XMM-Newton, X-ray observations of Local Lyman Break Galaxies (co-I), 2006

Spitzer Cycle 2, Star Formation and Dust in Nearby Lyman Break Galaxy Analogs Discovered by GALEX (co-I), 2005

GALEX Cycle 1, Wide-field Study of Two $z \sim 0.5$ Clusters (co-I), 2004

OBSERVING EXPERIENCE

Keck Observatory 10-m, Kitt Peak Observatory 4-m, Lick Observatory 3-m, MDM Observatory 2.4-m

MENTORING AND TEACHING

Senior thesis advisor (Josiah Walton), University of Arkansas (2008–2009)

Advised two REU students (Andrew Esselman, Josiah Walton), NOAO (2007)

Co-advised one doctoral student (Ryan Mallery), UCLA (2006–2008)

Full-time coordinator of an extensive astronomy program for high school students. Petnica Science Center, Serbia (1996–1997)

Substitute lecturing at Ohio State University and UCLA

RECENT CONFERENCES

SED Fitting Workshop, Leiden, Netherlands (invited talk, November 2008)

Challenges in Infrared Extragalactic Astrophysics, Crete, Greece (contributed talk, September 2008)

Probing Stellar Populations out to the Distant Universe, Cefalu, Italy (contributed talk, September 2008)

Panoramic Views of Galaxy Formation and Evolution, Hayama, Japan (contributed talk, December 2007)

REFERENCES

Mark Dickinson, National Optical Astronomy Observatory, 950 N. Cherry Ave., Tucson, AZ 85719, med@noao.edu, (520) 318-8531

R. Michael Rich, University of California, Los Angeles, Division of Astronomy and Astrophysics, PAB, Los Angeles, CA 90095, rmr@astro.ucla.edu, (310) 794-5337

Andrea Ghez, University of California, Los Angeles, Division of Astronomy and Astrophysics, PAB, Los Angeles, CA 90095, ghez@astro.ucla.edu, (310) 206-0420

PUBLICATION
SUMMARY

Published 46 papers in refereed journals, 10 as a first-author. Total of over 1400 citations (> 300 for first-author papers). Hirsch index of 18 (18 papers with 18 or more citations).

REFEREED
PUBLICATIONS

Salim, S., Dickinson, M., Rich, R. M., Charlot, S., Lee, J. C., Schiminovich, D., Perez-Gonzalez, P. G., Ashby, M. L. N., Papovich, C., et al. 2008. *Mid-IR Luminosities and UV/Optical Star Formation Rates at $z < 1.4$* , Astrophysical Journal, submitted

Kimm, T., Somerville, R. S., Yi, S. K., van den Bosch, F. C., **Salim, S.**, Fontanot, F., Monaco, P., Mo, H., Pasquali, A., et al. 2008. *The Correlation of Star Formation Quenching with Internal Galaxy Properties and Environment*, Monthly Notices of the Royal Astronomical Society, in press

Ghez, A. M., **Salim, S.**, Weinberg, N. N., Lu, J. R., Do, T., Dunn, J. K., Matthews, K., Morris, M., Yelda, S., et al. 2008. *Measuring Distance and Properties of the Milky Way's Central Supermassive Black Hole with Stellar Orbits*, Astrophysical Journal 689, 1044

Bianchi, L., Rodriguez-Merino, L., Viton, M., Laget, M., Efremova, B., Herald, J., Conti, A., Shiao, B., de Paz, A. G., et al. 2007. *Statistical Properties of the GALEX-SDSS Matched Source Catalogs, and Classification of the UV Sources*, Astrophysical Journal Supplement Series 173, 659

Donas, J., Deharveng, J.-M., Rich, R. M., Yi, S. K., Lee, Y.-W., Boselli, A., Gil de Paz, A., Boissier, S., Charlot, S., et al. 2007. *GALEX UV Color Relations for Nearby Early-Type Galaxies*, Astrophysical Journal Supplement Series 173, 597

Mallery, R. P., Kewley, L., Rich, R. M., **Salim, S.**, Charlot, S., Tremonti, C., Seibert, M., Small, T., Wyder, T., et al. 2007. *Nitrogen Production in Starburst Galaxies Detected by GALEX*, Astrophysical Journal Supplement Series 173, 482

Mallery, R. P., Rich, R. M., **Salim, S.**, Small, T., Charlot, S., Seibert, M., Wyder, T., Barlow, T. A., Forster, K., et al. 2007. *Keck DEIMOS Spectroscopy of a GALEX UV-Selected Sample from the Medium Imaging Survey*, Astrophysical Journal Supplement Series 173, 471

Basu-Zych, A. R., Schiminovich, D., Johnson, B. D., Hoopes, C., Overzier, R., Treyer, M. A., Heckman, T. M., Barlow, T. A., Bianchi, L., et al. 2007. *The Young and the Dustless: Interpreting Radio Observations of Ultraviolet-Luminous Galaxies*, Astrophysical Journal Supplement Series 173, 457

Hoopes, C. G., Heckman, T. M., **Salim, S.**, Seibert, M., Tremonti, C. A., Schiminovich, D., Rich, R. M., Martin, D. C., Charlot, S., et al. 2007. *The Diverse Properties of the Most Ultraviolet-Luminous Galaxies Discovered by GALEX*, Astrophysical Journal Supplement Series 173, 441

Schiminovich, D., Wyder, T. K., Martin, D. C., Johnson, B. D., Salim, S., Seibert, M., Treyer, M. A., Budavári, T., Hoopes, C., et al. 2007. *The UV-Optical Color Magnitude Diagram. II. Physical Properties and Morphological Evolution On and Off of a Star-forming Sequence*, Astrophysical Journal Supplement Series 173, 315

Salim, S., Rich, R. M., Charlot, S., Brinchmann, J., Johnson, B. D., Schiminovich, D., Seibert, M., Mallery, R., Heckman, T. M., et al. 2007. *UV Star Formation Rates in the Local Universe*, Astrophysical Journal Supplement Series 173, 267

- Kinman, T. D., **Salim, S.**, and Clewley, L. 2007. *The Identification of Blue Horizontal Branch Stars Using GALEX and Other Photometry*, *Astrophysical Journal* 662, L111
- Iverson, R. J., Chapman, S. C., Faber, S. M., Smail, I., Biggs, A. D., Conselice, C. J., Wilson, G., **Salim, S.**, Huang, J.-S., et al. 2007. *AEGIS20: A Radio Survey of the Extended Groth Strip*, *Astrophysical Journal* 660, L77
- Le Floch, E., Willmer, C. N. A., Noeske, K., Konidaris, N. P., Laird, E. S., Koo, D. C., Nandra, K., Bundy, K., **Salim, S.**, et al. 2007. *Far-Infrared Characterization of an Ultraluminous Starburst Associated with a Massively Accreting Black Hole at $z=1.15$* , *Astrophysical Journal* 660, L65
- Wilson, G., Huang, J.-S., Fazio, G. G., Yan, R., Koekemoer, A. M., **Salim, S.**, Faber, S. M., Lotz, J., Willmer, C. N. A., et al. 2007. *AEGIS: A Panchromatic Study of IRAC-selected Extremely Red Objects with Confirmed Spectroscopic Redshifts*, *Astrophysical Journal* 660, L59
- Gerke, B. F., Newman, J. A., Lotz, J., Yan, R., Barmby, P., Coil, A. L., Conselice, C. J., Iverson, R. J., Lin, L., et al. 2007. *The DEEP2 Galaxy Redshift Survey: AEGIS Observations of a Dual AGN at $z = 0.7$* , *Astrophysical Journal* 660, L23
- Davis, M., Guhathakurta, P., Konidaris, N. P., Newman, J. A., Ashby, M. L. N., Biggs, A. D., Barmby, P., Bundy, K., Chapman, S. C., et al. 2007. *The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets*, *Astrophysical Journal* 660, L1
- Shara, M. M., Martin, C. D., Seibert, M., Rich, R. M., **Salim, S.**, Reitzel, D., Schiminovich, D., Deliyannis, C. P., Sarrazine, A. R., et al. 2007. *An ancient nova shell around the dwarf nova Z Camelopardalis*, *Nature* 446, 159
- Beers, T. C., Flynn, C., Rossi, S., Sommer-Larsen, J., Wilhelm, R., Marsteller, B., Lee, Y. S., De Lee, N., Krugler, J., et al. 2007. *Broadband UBV_RIC Photometry of Horizontal-Branch and Metal-poor Candidates from the HK and Hamburg/ESO Surveys. I.*, *Astrophysical Journal Supplement Series* 168, 128
- Johnson, B. D., Schiminovich, D., Seibert, M., Treyer, M. A., Charlot, S., Heckman, T. M., Martin, D. C., **Salim, S.**, Kauffmann, G., et al. 2006. *Dissecting Galaxy Colors with GALEX, SDSS, and Spitzer*, *Astrophysical Journal* 644, L109
- Moran, S. M., Ellis, R. S., Treu, T., **Salim, S.**, Rich, R. M., Smith, G. P., and Kneib, J.-P. 2006. *GALEX Observations of "Passive Spirals" in the Cluster Cl 0024+17: Clues to the Formation of S0 Galaxies*, *Astrophysical Journal* 641, L97
- Colbert, J. W., Malkan, M. A., Rich, R. M., Frogel, J. A., **Salim, S.**, and Teplitz, H. 2006. *The Bright Ages Survey. I. Imaging Data*, *Astrophysical Journal* 638, 603
- Robinson, R. D., Wheatley, J. M., Welsh, B. Y., Forster, K., Morrissey, P., Seibert, M., Rich, R. M., **Salim, S.**, Barlow, T. A., et al. 2005. *GALEX Observations of an Energetic Ultraviolet Flare on the dM4e Star GJ 3685A*, *Astrophysical Journal* 633, 447
- Welsh, B. Y., Wheatley, J. M., Heafield, K., Seibert, M., Browne, S. E., **Salim, S.**, Rich, R. M., Barlow, T. A., Bianchi, L., et al. 2005. *The GALEX Ultraviolet Variability Catalog*, *Astronomical Journal* 130, 825

- Ghez, A. M., **Salim, S.**, Hornstein, S. D., Tanner, A., Lu, J. R., Morris, M., Becklin, E. E., and Duchêne, G. 2005. *Stellar Orbits around the Galactic Center Black Hole*, *Astrophysical Journal* 620, 744
- Yi, S. K., Yoon, S.-J., Kaviraj, S., Deharveng, J.-M., Rich, R. M., **Salim, S.**, Boselli, A., Lee, Y.-W., Ree, C. H., et al. 2005. *Galaxy Evolution Explorer Ultraviolet Color-Magnitude Relations and Evidence of Recent Star Formation in Early-Type Galaxies*, *Astrophysical Journal* 619, L111
- Rich, R. M., **Salim, S.**, Brinchmann, J., Charlot, S., Seibert, M., Kauffmann, G., Lee, Y.-W., Yi, S. K., Barlow, T. A., et al. 2005. *Systematics of the Ultraviolet Rising Flux in a GALEX/SDSS Sample of Early-Type Galaxies*, *Astrophysical Journal* 619, L107
- Salim, S.**, Charlot, S., Rich, R. M., Kauffmann, G., Heckman, T. M., Barlow, T. A., Bianchi, L., Byun, Y.-I., Donas, J., et al. 2005. *New Constraints on the Star Formation Histories and Dust Attenuation of Galaxies in the Local Universe from GALEX*, *Astrophysical Journal* 619, L39
- Heckman, T. M., Hoopes, C. G., Seibert, M., Martin, D. C., **Salim, S.**, Rich, R. M., Kauffmann, G., Charlot, S., Barlow, T. A., et al. 2005. *The Properties of Ultraviolet-luminous Galaxies at the Current Epoch*, *Astrophysical Journal* 619, L35
- Seibert, M., Budavári, T., Rhee, J., Rey, S.-C., Schiminovich, D., **Salim, S.**, Martin, D. C., Szalay, A. S., Forster, K., et al. 2005. *GALEX Observations of the Sloan Digital Sky Survey: A Comparison*, *Astrophysical Journal* 619, L23
- Ghosh, H., DePoy, D. L., Gal-Yam, A., Gaudi, B. S., Gould, A., Han, C., Lipkin, Y., Maoz, D., Ofek, E. O., et al. 2004. *Potential Direct Single-Star Mass Measurement*, *Astrophysical Journal* 615, 450
- Salim, S.**, Rich, R. M., Hansen, B. M., Koopmans, L. V. E., Oppenheimer, B. R., and Blandford, R. D. 2004. *Cool White Dwarfs Revisited: New Spectroscopy and Photometry*, *Astrophysical Journal* 601, 1075
- Zheng, Z., Flynn, C., Gould, A., Bahcall, J. N., and **Salim, S.** 2004. *M Dwarfs from Hubble Space Telescope Star Counts. V. The I-Band Luminosity Function*, *Astrophysical Journal* 601, 500
- Salim, S.**, Lépine, S., Rich, R. M., and Shara, M. M. 2003. *LSR 0602+3910: Discovery of a Bright Nearby L-Type Brown Dwarf*, *Astrophysical Journal* 586, L149
- Ghez, A. M., Duchêne, G., Matthews, K., Hornstein, S. D., Tanner, A., Larkin, J., Morris, M., Becklin, E. E., **Salim, S.**, et al. 2003. *The First Measurement of Spectral Lines in a Short-Period Star Bound to the Galaxy's Central Black Hole: A Paradox of Youth*, *Astrophysical Journal* 586, L127
- Salim, S.** and Gould, A. 2003. *Improved Astrometry and Photometry for the Luyten Catalog. II. Faint Stars and the Revised Catalog*, *Astrophysical Journal* 582, 1011
- Gould, A. and **Salim, S.** 2003. *Improved Astrometry and Photometry for the Luyten Catalog. I. Bright Stars*, *Astrophysical Journal* 582, 1001

Salim, S. and Gould, A. 2002. *Classifying Luyten Stars Using an Optical-Infrared Reduced Proper-Motion Diagram*, Astrophysical Journal 575, L83

Salim, S., Gould, A., and Olling, R. P. 2002. *Astrometry Survey Missions beyond the Magnitude Limit*, Astrophysical Journal 573, 631

Gould, A. and **Salim, S.** 2002. *Searching for Failed Supernovae with Astrometric Binaries*, Astrophysical Journal 572, 944

Zheng, Z., Flynn, C., Gould, A., Bahcall, J. N., and **Salim, S.** 2001. *M Dwarfs from Hubble Space Telescope Star Counts. IV.*, Astrophysical Journal 555, 393

Flynn, C., Sommer-Larsen, J., Fuchs, B., Graff, D. S., and **Salim, S.** 2001. *A search for nearby counterparts to the moving objects in the Hubble Deep Field*, Monthly Notices of the Royal Astronomical Society 322, 553

Ferrin, I., Rabinowitz, D., Schaefer, B., Snyder, J., Ellman, N., Vicente, B., Rengstorf, A., Depoy, D., **Salim, S.**, et al. 2001. *Discovery of the Bright Trans-Neptunian Object 2000 EB₁₇₃*, Astrophysical Journal 548, L243

Salim, S. and Gould, A. 2000. *Nearby Microlensing Events: Identification of the Candidates for the Space Interferometry Mission*, Astrophysical Journal 539, 241

Gould, A. and **Salim, S.** 1999. *Photometric Microlens Parallaxes with the Space Interferometry Mission*, Astrophysical Journal 524, 794

Salim, S. and Gould, A. 1999. *Sagittarius A* “Visual Binaries”: A Direct Measurement of the Galactocentric Distance*, Astrophysical Journal 523, 633

RECENT
NON-REFEREED
PUBLICATIONS

Salim, S., Dickinson, M. E. and AEGIS/FIDEL collaboration 2008. *Possible Obscured AGN and the mid-IR Excess at $z < 1.4$* , Panoramic Views of Galaxy Formation and Evolution

Hornschemeier, A. E., Heckman, T., Ptak, A., Grimes, J., Strickland, D., **Salim, S.**, Rich, R. M., and Mallery, R. 2008. *X-ray Emission from Ultraviolet Luminous Galaxies, A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments* 1010, 291

Ghez, A. M., **Salim, S.**, Weinberg, N., Lu, J., Do, T., Dunn, J. K., Matthews, K., Morris, M., Yelda, S., et al. 2008. *Probing the properties of the Milky Way’s central supermassive black hole with stellar orbits*, IAU Symposium 248, 52

Salim, S. and The GALEX Science Team 2005. *Star-formation histories of $z < 0.25$ galaxies from GALEX*, Starbursts: From 30 Doradus to Lyman Break Galaxies 329, 69P

Salim, S. and The GALEX Science Team 2005. *Star Formation Histories and Physical Parameters of Local Gas-Rich Galaxies from GALEX+SDSS Photometry*, The Spectral Energy Distributions of Gas-Rich Galaxies: Confronting Models with Data 761, 401