

Scott M. Ransom

Work:

National Radio Astronomy Observatory
520 Edgemont Rd.
Charlottesville, VA 22903 USA
(434) 296-0320 Fax: (434) 296-0278
sransom@nrao.edu

Home:

1505 Shadow Oaks Pl.
Charlottesville, VA 22901 USA
Home: (434) 973-0760
Cell: (434) 284-2604

Experience

National Radio Astronomy Observatory (NRAO), Astronomer with Tenure, 2010–present
NRAO, Associate Astronomer, 2006–2009 (with Tenure, 2009–present)
University of Virginia, Research Professor of Astronomy, 2005–present
NRAO, Assistant Astronomer, 2004–2006
McGill University / Massachusetts Institute of Technology, Post-Doctoral Fellow, 2001–2004
Harvard University, Research Asst, Teaching Fellow, Beowulf SysAdmin, 1992–1994, 1999–2001
U.S. Army, Artillery Officer and Instructor, 1992–1999
Los Alamos National Laboratory, Army Research Officer, 1991, 1992

Teaching

University of Virginia, Astro 534: Radio Astronomy (co-taught with Jim Condon), Fall 2006, 2008, 2010

Education

Harvard University, Cambridge, MA: PhD, Astronomy, 2001
Thesis: “New Search Techniques for Binary Pulsars”, Advisor: G. G. Fazio
Harvard University, Cambridge, MA: AM, Astronomy, 1994
United States Military Academy, West Point, NY: BS, Engineering Physics, 1992

Honors

AAS Helen B. Warner Prize, 2010 *Awarded annually for a significant contribution to observational or theoretical astronomy during the five years preceding the award.*
Bart J. Bok Prize, 2006 *Awarded annually in recognition of distinguished research by a Harvard Astronomy Ph.D. recipient under age 35.*
Tomlinson Fellowship, 2001–2003 *For newly accepted post-doctoral fellows accepted into any department at McGill University.*
Fireman Fellowship, 2001 *Awarded annually to one graduate student in the Dept. of Astronomy at Harvard by a vote of the faculty.*
Hertz Foundation Graduate Fellowship, 1992–1994 *For graduate work leading to award of the Ph.D. degree in applications of the physical sciences.*

Professional Committees

AAS High Energy Division Executive committee, 2009–2011
International SKA Science Working Group, 2007–present
Fermi Users Group, 2007–present
Arecibo Users and Scientific Advisory Committee, 2007–2010
US Decadal Survey 2010 Stars and Stellar Evolution Science Frontiers Panel, 2009

Refereed Publications

- Kerr, M., et al. 2012, “Five New Millisecond Pulsars from a Radio Survey of 14 Unidentified Fermi-LAT Gamma-Ray Sources”, *ApJ*, 748, L2
- Breton, R. P., et al. 2012, “The Double Pulsar Eclipses. I. Phenomenology and Multi-frequency Analysis”, *ApJ*, 747, 89
- Camilo, F., **Ransom, S. M.**, Chatterjee, S., Johnston, S., & Demorest, P. 2012, “PSR J1841-0500: A Radio Pulsar That Mostly is Not There”, *ApJ*, 746, 63
- Camilo, F., et al. 2012, “PSR J2030+3641: Radio Discovery and Gamma-Ray Study of a Middle-aged Pulsar in the Now Identified Fermi-LAT Source 1FGL J2030.0+3641”, *ApJ*, 746, 39
- Lynch, R. S., Freire, P. C. C., **Ransom, S. M.**, & Jacoby, B. A. 2012, “The Timing of Nine Globular Cluster Pulsars”, *ApJ*, 745, 109
- Pletsch, H. J., et al. 2012, “Discovery of Nine Gamma-Ray Pulsars in Fermi Large Area Telescope Data Using a New Blind Search Method”, *ApJ*, 744, 105
- Guillemot, L., et al. 2012, “Pulsed Gamma Rays from the Original Millisecond and Black Widow Pulsars: A Case for Caustic Radio Emission?”, *ApJ*, 744, 33
- Gonzalez, M. E., et al. 2011, “High-precision Timing of Five Millisecond Pulsars: Space Velocities, Binary Evolution, and Equivalence Principles”, *ApJ*, 743, 102
- Bogdanov, S., Archibald, A. M., Hessels, J. W. T., Kaspi, V. M., Lorimer, D., McLaughlin, M. A., **Ransom, S. M.**, & Stairs, I. H. 2011, “A Chandra X-Ray Observation of the Binary Millisecond Pulsar PSR J1023+0038”, *ApJ*, 742, 97
- Freire, P. C. C., et al. 2011, “Fermi Detection of a Luminous γ -Ray Pulsar in a Globular Cluster”, *Science*, 334, 1107
- Boyles, J., Lorimer, D. R., Turk, P. J., Mnatsakanov, R., Lynch, R. S., **Ransom, S. M.**, Freire, P. C., & Belczynski, K. 2011, “Young Radio Pulsars in Galactic Globular Clusters”, *ApJ*, 742, 51
- Arzoumanian, Z., Gotthelf, E. V., **Ransom, S. M.**, Safi-Harb, S., Kothes, R., & Landecker, T. L. 2011, “Discovery of an Energetic Pulsar Associated with SNR G76.9+1.0”, *ApJ*, 739, 39
- McSwain, M. V., Ray, P. S., **Ransom, S. M.**, Roberts, M. S. E., Dougherty, S. M., & Pooley, G. G. 2011, “A Radio Pulsar Search of the γ -ray Binaries LS I +61 303 and LS 5039”, *ApJ*, 738, 105
- Keith, M. J., et al. 2011, “Discovery of millisecond pulsars in radio searches of southern Fermi Large Area Telescope sources”, *MNRAS*, 414, 1292
- Ray, P. S., et al. 2011, “Precise γ -ray Timing and Radio Observations of 17 Fermi γ -ray Pulsars”, *ApJS*, 194, 17
- Lynch, R. S., **Ransom, S. M.**, Freire, P. C. C., & Stairs, I. H. 2011, “Six New Recycled Globular Cluster Pulsars Discovered with the Green Bank Telescope”, *ApJ*, 734, 89
- Knispel, B., et al. 2011, “Arecibo PALFA Survey and Einstein@Home: Binary Pulsar Discovery by Volunteer Computing”, *ApJ*, 732, L1
- Cognard, I., et al. 2011, “Discovery of Two Millisecond Pulsars in Fermi Sources with the Nançay Radio Telescope”, *ApJ*, 732, 47
- Freire, P. C. C., et al. 2011, “On the nature and evolution of the unique binary pulsar J1903+0327”, *MNRAS*, 412, 2763
- Bogdanov, S., et al. 2011, “Chandra X-ray Observations of 12 Millisecond Pulsars in the Globular Cluster M28”, *ApJ*, 730, 81
- Messenger, C., Lommen, A., Demorest, P., & **Ransom, S.** 2011, “A Bayesian parameter estimation approach to pulsar time-of-arrival analysis”, *Classical and Quantum Gravity*, 28, 055001
- Lynch, R. S., & **Ransom, S. M.** 2011, “A New Pulsar in Green Bank Telescope Searches of 10 Globular Clusters”, *ApJ*, 730, L11

- Bilous, A. V., Kondratiev, V. I., McLaughlin, M. A., **Ransom, S. M.**, Lyutikov, M., Mickaliger, M., & Langston, G. I. 2011, “Correlation of Fermi Photons with High-frequency Radio Giant Pulses from the Crab Pulsar”, *ApJ*, 728, 110
- Ransom, S. M.**, et al. 2011, “Three Millisecond Pulsars in Fermi LAT Unassociated Bright Sources”, *ApJ*, 727, L16
- Ackermann, M., et al. 2011, “Fermi-LAT Search for Pulsar Wind Nebulae Around Gamma-ray Pulsars”, *ApJ*, 726, 35
- Pallanca, C., et al. 2010, “The Optical Companion to the Binary Millisecond Pulsar J1824-2452H in the Globular Cluster M28”, *ApJ*, 725, 1165
- Saz Parkinson, P. M., et al. 2010, “Eight γ -ray Pulsars Discovered in Blind Frequency Searches of Fermi LAT Data”, *ApJ*, 725, 571
- Özel, F., Psaltis, D., **Ransom, S.**, Demorest, P., & Alford, M. 2010, “The Massive Pulsar PSR J1614-2230: Linking Quantum Chromodynamics, Gamma-ray Bursts, and Gravitational Wave Astronomy”, *ApJ*, 724, L199
- Demorest, P. B., Pennucci, T., **Ransom, S. M.**, Roberts, M. S. E., & Hessels, J. W. T. 2010, “A two-solar-mass neutron star measured using Shapiro delay”, *Nature*, 467, 1081
- Archibald, A. M., Kaspi, V. M., Bogdanov, S., Hessels, J. W. T., Stairs, I. H., **Ransom, S. M.**, & McLaughlin, M. A. 2010, “X-ray Variability and Evidence for Pulsations from the Unique Radio Pulsar/X-ray Binary Transition Object FIRST J102347.6+003841”, *ApJ*, 722, 88
- Knispel, B., et al. 2010, “Pulsar Discovery by Global Volunteer Computing”, *Science*, 329, 1305
- Lanzoni, B., et al. 2010, “New Density Profile and Structural Parameters of the Complex Stellar System Terzan 5”, *ApJ*, 717, 653
- Macquart, J.-P., Kanekar, N., Frail, D. A., & **Ransom, S. M.** 2010, “A High-frequency Search for Pulsars within the Central Parsec of Sgr A*”, *ApJ*, 715, 939
- Hobbs, G., et al. 2010, “The International Pulsar Timing Array Project: Using Pulsars as a Gravitational Wave Detector”, *Classical and Quantum Gravity*, 27, 084013
- Abdo, A. A., et al. 2010, “The First Fermi Large Area Telescope Catalog of Gamma-ray Pulsars”, *ApJS*, 187, 460
- Abbott, B. P., et al. 2010, “Searches for Gravitational Waves from Known Pulsars with Science Run 5 LIGO Data”, *ApJ*, 713, 671
- Abdo, A. A., et al. 2010, “Fermi Large Area Telescope Observations of PSR J1836+5925”, *ApJ*, 712, 1209
- Abdo, A. A., et al. 2010, “Discovery of Pulsed γ -Rays from PSR J0034-0534 with the Fermi Large Area Telescope: A Case for Co-Located Radio and γ -Ray Emission Regions”, *ApJ*, 712, 957
- Weltevrede, P., et al. 2010, “Gamma-ray and Radio Properties of Six Pulsars Detected by the *Fermi* Large Area Telescope”, *ApJ*, 708, 1426
- Ferraro, F. R., et al. 2009, “Terzan 5: the remnant of a primordial building-block of the Galactic Bulge”, *Nature*, 462, 483
- Abdo, A. A., et al. 2009, “*Fermi* Large Area Telescope Detection of Pulsed γ -rays from the Vela-like Pulsars PSR J1048–5832 and PSR J2229+6114”, *ApJ*, 706, 1331
- Livingstone, M. A., **Ransom, S. M.**, Camilo, F., Kaspi, V. M., Lyne, A. G., Kramer, M., & Stairs, I. H. 2009, “X-ray and Radio Timing of the Pulsar in 3C 58”, *ApJ*, 706, 1163
- Camilo, F., Ray, P. S., **Ransom, S. M.**, et al. 2009, “Radio Detection of LAT PSRs J1741–2054 and J2032+4127: No Longer Just Gamma-ray Pulsars”, *ApJ*, 705, 1
- Deneva, J. S., et al. 2009, “Arecibo Pulsar Survey Using ALFA: Probing Radio Pulsar Intermittency And Transients”, *ApJ*, 703, 2259

- Wang, Z., Archibald, A. M., Thorstensen, J. R., Kaspi, V. M., Lorimer, D. R., Stairs, I., & **Ransom, S. M.** 2009, “SDSS J102347.6+003841: A Millisecond Radio Pulsar Binary That Had a Hot Disk During 2000-2001”, *ApJ*, 703, 2017
- Camilo, F., Ng, C.-Y., Gaensler, B. M., **Ransom, S. M.**, Chatterjee, S., Reynolds, J., & Sarkissian, J. 2009, “Out of the Frying Pan: A Young Pulsar with a Long Radio Trail Emerging from SNR G315.9–0.0”, *ApJ*, 703, L55
- Abdo, A. A., et al. 2009, “A Population of Gamma-Ray Millisecond Pulsars Seen with the *Fermi* Large Area Telescope”, *Science*, 325, 848
- Abdo, A. A., et al. 2009, “Pulsed Gamma-rays from PSR J2021+3651 with the *Fermi* Large Area Telescope”, *ApJ*, 700, 1059
- Camilo, F., **Ransom, S. M.**, Gaensler, B. M., & Lorimer, D. R. 2009, “Discovery of the Energetic Pulsar J1747–2809 in the Supernova Remnant G0.9+0.1”, *ApJ*, 700, L34
- Abdo, A. A., et al. 2009, “Discovery of Pulsations from the Pulsar J0205+6449 in SNR 3C 58 with the *Fermi* Gamma-Ray Space Telescope”, *ApJ*, 699, L102
- Archibald, A. M., Stairs, I. H., **Ransom, S. M.**, et al. 2009, “A Radio Pulsar / X-ray Binary Link”, *Science*, 324, 1411
- Abdo, A. A., et al. 2009, “*Fermi* Large Area Telescope Observations of the Vela Pulsar”, *ApJ*, 696, 1084
- Smith, D. A. and the *Fermi* Pulsar Timing Collaboration 2008, “Pulsar Timing for the *Fermi* gamma-ray space telescope”, *A&A*, 492, 923
- Halpern, J. P., et al. 2008, “Discovery of High-Energy Gamma-Ray Pulsations from PSR J2021+3651 with AGILE”, *ApJ*, 688, L33
- Elsner, R. F., et al. 2008, “*Chandra* X-ray Observatory Observations of the Globular Cluster M71”, *ApJ*, 687, 1019
- Hessels, J. W. T. and the Pulsar-ALFA Consortium 2008, “PSR J1856+0245: Arecibo Discovery of a Young, Energetic Pulsar Coincident with the TeV γ -ray Source HESS J1857+026”, *ApJ*, 682, L41
- Breton, R. P., Kaspi, V. M., Kramer, M., McLaughlin, M. A., Lyutikov, M., **Ransom, S. M.**, Stairs, I. H., Ferdman, R. D., Camilo, F., & Possenti, A. 2008, “Relativistic Spin Precession in the Double Pulsar”, *Science*, 321, 104
- Champion, D., **Ransom, S. M.** and the Pulsar-ALFA Consortium 2008, “An Eccentric Binary Millisecond Pulsar in the Galactic Plane”, *Science*, 320, 1309
- Trenti, M., **Ransom, S. M.**, Hut, P., & Hogg, D. C. 2008, “Predictions for Triple Stars with and without a Pulsar in Star Clusters”, *MNRAS*, 387, 815
- Camilo, F., Reynolds, J., Johnston, S., Halpern, J. P., & **Ransom, S. M.** 2008, “The Magnetar 1E 1547.0–5408: Radio Spectrum, Polarimetry, and Timing”, *ApJ*, 679, 681
- Cocozza, G., Ferraro, F. R., Possenti, A., Beccari, G., Lanzoni, B., **Ransom, S. M.**, Rood, R. T., & D’Amico, N. 2008, “A puzzling millisecond pulsar companion in NGC 6266”, *ApJ*, 679, 105
- Minter, A. H., Camilo, F., **Ransom, S. M.**, Halpern, J. P., & Zimmerman, N. 2008, “Neutral Hydrogen Absorption Toward XTE J1810–197: the Distance to a Radio-Emitting Magnetar”, *ApJ*, 676, 1189
- Halpern, J. P., Gotthelf, E. V., Reynolds, J., **Ransom, S. M.**, & Camilo, F. 2008, “Outburst of the 2 S Anomalous X-ray Pulsar 1E 1547.0–5408”, *ApJ*, 676, 1178
- Freire, P. C. C., **Ransom, S. M.**, Bégin, S., Stairs, I. H., Hessels, J. W. T., Frey, L. H., & Camilo, F. 2008, “Eight New Millisecond Pulsars in NGC 6440 and NGC 6441”, *ApJ*, 675, 670
- Hessels, J. W. T., **Ransom, S. M.**, Stairs, I. H., Kaspi, V. M., & Freire, P. C. C. 2007, “A 1.4-GHz Arecibo Survey for Pulsars in Globular Clusters”, *ApJ*, 670, 363
- Camilo, F., **Ransom, S. M.**, et al. 2007, “The Variable Radio-to-X-ray Spectrum of the Magnetar XTE J1810–197”, *ApJ*, 669, 561

- Camilo, F., **Ransom, S. M.**, Halpern, J. P., & Reynolds, J. 2007, “1E 1547.0–5408: A Radio-Emitting Magnetar with a Rotation Period of 2 Seconds”, *ApJ*, 666, L93
- Camilo, F., Cognard, I., **Ransom, S. M.**, et al. 2007, “The Magnetar XTE J1810–197: Variations in Torque, Radio Flux Density and Pulse Profile Morphology”, *ApJ*, 663, 497
- Helfand, D. J., Chatterjee, S., Briskin, W. F., Camilo, F., Reynolds, J., van Kerkwijk, M. H., Halpern, J. P., & **Ransom, S. M.** 2007, “VLBA measurement of the transverse velocity of the magnetar XTE J1810–197”, *ApJ*, 662, 1198
- Freire, P. C. C., **Ransom, S. M.**, & Gupta, Y. 2007, “Timing the Eccentric Binary Millisecond Pulsar in NGC 1851”, *ApJ*, 662, 1177
- Breton, R. P., Roberts, M. S. E., **Ransom, S. M.**, Kaspi, V. M., Durant, M., Bergeron, P., & Faulkner, A. 2007, “The Unusual Binary Pulsar PSR J1744–3922: Radio Flux Variability, Near-Infrared Observation, and Evolution”, *ApJ*, 661, 1073
- McSwain, M. V., **Ransom, S. M.**, Boyajian, T. S., Grundstrom, E. D., & Roberts, M. S. E. 2007, “Runaway Massive Binaries and Cluster Ejection Scenarios”, *ApJ*, 660, 740
- Cameron, P. B., Rutledge, R. E., Camilo, F., Bildsten, L., **Ransom, S. M.**, & Kulkarni, S. R. 2007, “Variability of 19 Millisecond Pulsars in 47 Tucanae with *CHANDRA* HRC-S”, *ApJ*, 660, 587
- Camilo, F., Reynolds, J., Johnston, S., Halpern, J. P., **Ransom, S. M.**, & van Straten, W. 2007, “Polarized Radio Emission from the Magnetar XTE J1810–197”, *ApJ*, 659, L37
- Crawford, F., Roberts, M. S. E., Hessels, J. W. T., **Ransom, S. M.**, Livingstone, M., Tam, C. R., & Kaspi, V. M. 2006, “A Survey of 56 Mid-latitude EGRET Error Boxes for Radio Pulsars”, *ApJ*, 652, 1499
- Camilo, F., **Ransom, S. M.**, Halpern, J., Reynolds, J., Helfand, D., Zimmerman, N., & Sarkissian, J. 2006, “Transient pulsed radio emission from a magnetar”, *Nature*, 442, 892
- Hessels, J. W. T., **Ransom, S. M.**, Stairs, I. H., Freire, P. C. C., Kaspi, V. M., & Camilo, F. 2006, “A Radio Pulsar Spinning at 716 Hz”, *Science*, 311, 1901
- Lorimer, D. R. and the Pulsar-ALFA Consortium 2006, “Arecibo Pulsar Survey Using ALFA. II. The Young, Highly Relativistic Binary Pulsar J1906+0746”, *ApJ*, 640, L428
- Camilo, F., **Ransom, S. M.**, Gaensler, B. M., Slane, P. O., Lorimer, D. R., Reynolds, J., Manchester, R. N., & Murray, S. S. 2006, “PSR J1833–1034: Discovery of the Central Young Pulsar in the Supernova Remnant G21.5–0.9”, *ApJ*, 637, 456
- Cordes, J. M. and the Pulsar-ALFA Consortium 2006, “Arecibo Pulsar Survey Using ALFA. I. Survey Strategy and First Discoveries”, *ApJ*, 637, 446
- McGarry, M. B., Gaensler, B. M., **Ransom, S. M.**, Kaspi, V. M., & Veljkovic, S. 2005, “X-Ray Timing, Spectroscopy, and Photometry of the Anomalous X-Ray Pulsar Candidate CXOU J010043.1–721134”, *ApJ*, 627, L137
- Kaplan, D. L., et al. 2005, “The Green Bank Telescope Pulsar Spigot”, *PASP*, 117, 643
- Lorimer, D. R., et al. 2005, “Discovery of 10 pulsars in an Arecibo drift-scan survey”, *MNRAS*, 359, 1524
- Dib, R., **Ransom, S. M.**, Ray, P. S., Kaspi, V. M., & Archibald, A. M. 2005, “An RXTE Archival Search for Coherent X-Ray Pulsations in the Low-Mass X-Ray Binary 4U 1820–30”, *ApJ*, 626, 333
- Freire, P. C. C., Hessels, J. W. T., Nice, D. J., **Ransom, S. M.**, Lorimer, D. R., & Stairs, I. H. 2005, “The Millisecond Pulsars in NGC 6760”, *ApJ*, 621, 959
- Ransom, S. M.**, Hessels, J. W. T., Stairs, I. H., Freire, P. C. C., Camilo, F., Kaspi, V. M., & Kaplan, D. L. 2005, “Twenty-One Millisecond Pulsars in Terzan 5 Using the Green Bank Telescope”, *Science*, 307, 892

- Demorest, P., Ramachandran, R., Backer, D. C., **Ransom, S. M.**, Kaspi, V., Arons, J., & Spitkovsky, A. 2004, “Orientations of Spin and Magnetic Dipole Axes of Pulsars in the J0737–3039 Binary Based on Polarimetry Observations at the Green Bank Telescope”, *ApJ*, 615, L137
- Kaspi, V. M., **Ransom, S. M.**, Backer, D. C., Ramachandran, R., Demorest, P., Arons, J., & Spitkovsky, A. 2004, “Green Bank Telescope Observations of the Eclipse of Pulsar “A” in the Double Pulsar Binary PSR J0737–3039”, *ApJ*, 613, L137
- Halpern, J. P., Gotthelf, E. V., Camilo, F., Helfand, D. J., & **Ransom, S. M.** 2004, “X-Ray, Radio, and Optical Observations of the Putative Pulsar in the Supernova Remnant CTA 1”, *ApJ*, 612, 398
- Hessels, J. W. T., Roberts, M. S. E., **Ransom, S. M.**, Kaspi, V. M., Romani, R. W., Ng, C.-Y., Freire, P. C. C., & Gaensler, B. M. 2004, “Observations of PSRJ2021+3651 and its X-Ray Pulsar Wind Nebula G75.2+0.1”, *ApJ*, 612, 389
- Ransom, S. M.**, Kaspi, V. M., Ramachandran, R., Demorest, P., Backer, D. C., Pfahl, E. D., Ghigo, F. D., & Kaplan, D. L. 2004, “Green Bank Telescope Measurement of the Systemic Velocity of the Double Pulsar Binary J0737–3039 and Implications for Its Formation”, *ApJ*, 609, L71
- Ibrahim, A. I., et al. 2004, “Discovery of a Transient Magnetar: XTE J1810–197”, *ApJ*, 609, L21
- Freire, P. C., Gupta, Y., **Ransom, S. M.**, & Ishwara-Chandra, C. H. 2004, “Giant Metrewave Radio Telescope Discovery of a Millisecond Pulsar in a Very Eccentric Binary System”, *ApJ*, 606, L53
- Jenet, F. A., & **Ransom, S. M.** 2004, “The geometry of the double-pulsar system J0737–3039 from systematic intensity variations”, *Nature*, 428, 919
- Ransom, S. M.**, Stairs, I. H., Backer, D. C., Greenhill, L. J., Bassa, C. G., Hessels, J. W. T., & Kaspi, V. M. 2004, “Green Bank Telescope Discovery of Two Binary Millisecond Pulsars in the Globular Cluster M30”, *ApJ*, 604, 328
- Roberts, M. S. E., Hessels, J. W. T., **Ransom, S. M.**, Kaspi, V. M., Freire, P. C. C., Crawford, F., & Lorimer, D. R. 2004, “PSR J2021+3651: a new γ -ray pulsar candidate”, *Advances in Space Research*, 33, 577
- Markwardt, C. B., **Ransom, S.**, Woods, P., Ibrahim, A., Kaspi, V., Kouveliotou, C., Roberts, M., & Swank, J. 2003, “XTE J1810–197 is Likely an Anomalous X-ray Pulsar”, *The Astronomer’s Telegram*, 188, 1
- Gotthelf, E. V., Halpern, J. P., Markwardt, C., Ibrahim, A. I., Roberts, M., **Ransom, S. M.**, & Woods, P. 2003, “CXOU J180951.1–194351 = RXTE J1810–197”, *IAU Circ.*, 8190, 2
- Ransom, S. M.**, Cordes, J. M., & Eikenberry, S. S. 2003, “A New Search Technique for Short Orbital Period Binary Pulsars”, *ApJ*, 589, 911
- Gavriil, F., **Ransom, S. M.**, Roberts, M. S. E., Kaspi, V. M., Gaensler, B. M., Murray, S. S., & Slane, P. O. 2003, “RXTE monitoring of the 65-ms X-ray pulsars PSR J1811–1925 in G11.2-0.3 and PSR J0205+6559 in 3C 58”, *JRASC*, 97, 213
- Roberts, M. S. E., Hessels, J. W. T., **Ransom, S. M.**, Kaspi, V. M., Freire, P. C. C., Crawford, F., & Lorimer, D. R. 2002, “PSR J2021+3651: A Young Radio Pulsar Coincident with an Unidentified EGRET γ -Ray Source”, *ApJ*, 577, L19
- Ransom, S. M.**, Eikenberry, S. S., & Middleditch, J. 2002, “Fourier Techniques for Very Long Astrophysical Time-Series Analysis”, *AJ*, 124, 1788
- Camilo, F., et al. 2002, “Discovery of Radio Pulsations from the X-Ray Pulsar J0205+6449 in Supernova Remnant 3C 58 with the Green Bank Telescope”, *ApJ*, 571, L41
- Ransom, S. M.**, Gaensler, B. M., & Slane, P. O. 2002, “A Deep Search for Pulsations from the Nearby Isolated Neutron Star RX J1856.5–3754”, *ApJ*, 570, L75

- Murray, S. S., Slane, P. O., Seward, F. D., **Ransom, S. M.**, & Gaensler, B. M. 2002, “Discovery of X-Ray Pulsations from the Compact Central Source in the Supernova Remnant 3C 58”, *ApJ*, 568, 226
- Murray, S. S., **Ransom, S. M.**, Juda, M., Hwang, U., & Holt, S. S. 2002, “Is the Compact Source at the Center of Cassiopeia A Pulsed?”, *ApJ*, 566, 1039
- Ransom, S. M.**, Greenhill, L. J., Herrnstein, J. R., Manchester, R. N., Camilo, F., Eikenberry, S. S., & Lyne, A. G. 2001, “A Binary Millisecond Pulsar in Globular Cluster NGC 6544”, *ApJ*, 546, L25
- Ransom, CPT S. M.**, & Grand, LTC F. J. 1999, “Un-masking the Q-36 Mask Angle: Finding Mortars in the Woods”, *Field Artillery*, Jan-Feb, 34
- Eikenberry, S. S., Fazio, G. G., & **Ransom, S. M.** 1998, “ROSAT Timing of the LMC Pulsar 0540–69”, *ApJ*, 492, 754
- Eikenberry, S. S., Fazio, G. G., **Ransom, S. M.**, Middleditch, J., Kristian, J., & Pennypacker, C. R. 1997, “High Time Resolution Infrared Observations of the Crab Nebula Pulsar and the Pulsar Emission Mechanism”, *ApJ*, 477, 465
- Eikenberry, S. S., Fazio, G. G., & **Ransom, S. M.** 1996, “An SSPM-Based High-Speed Near-Infrared Photometer for Astronomy”, *PASP*, 108, 939
- Eikenberry, S. S., Fazio, G. G., **Ransom, S. M.**, Middleditch, J., Kristian, J., & Pennypacker, C. R. 1996, “Infrared-to-Ultraviolet Wavelength-dependent Variations within the Pulse Profile Peaks of the Crab Nebula Pulsar”, *ApJ*, 467, L85
- Eikenberry, S. S., Fazio, G. G., & **Ransom, S. M.** 1995, “SSPM-based high-speed infrared photometer for astronomy”, *Proc. SPIE*, 2475, 210
- Ransom, S. M.**, Fazio, G. G., Eikenberry, S. S., Middleditch, J., Kristian, J., Hays, K., & Pennypacker, C. R. 1994, “High time resolution infrared observations of the Crab Nebula pulsar”, *ApJ*, 431, L43

Recent Invited Talks

- 2012 May, Testing General Relativity with Astrophysical Systems Conference, Harvard Univ, Cambridge, MA, USA, “Testing GR with Pulsar Timing”
- 2012 May, Ohio St Physics Colloquium, Columbus OH, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2012 Apr, Carnegie Institute Seminar, Pasadena, CA, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2012 Apr, Caltech Astronomy Colloquium, Pasadena, CA, USA, “Nuclear Physics at Two Kiloparsecs with Millisecond Pulsars”
- 2012 Mar, Penn St Univ Physics Colloquium, State College, PA, USA, “Nuclear Physics at Two Kiloparsecs with Millisecond Pulsars”
- 2012 Mar, Yale Univ YCAA Seminar, New Haven, CT, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2012 Mar, Purdue Univ Physics Colloquium, West Lafayette, IN, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2012 Feb, Stanford Univ Physics Colloquium, Stanford, CA, USA, “Basic (but cool!) Physics with Millisecond Pulsars”
- 2012 Feb, AAAS Meeting, Vancouver, Canada, “Nuclear Physics at Two Kiloparsecs with Millisecond Pulsars”
- 2012 Feb, Univ British Columbia Physics Colloquium, Vancouver, Canada, “Neutron Star Masses and Basic Physics Consequences”

- 2012 Jan, Planets Around Stellar Remnants Conference, Arecibo, PR, “Where are the other pulsar-planet systems?”
- 2012 Jan, AAS Meeting Large Data Special Session, Austin TX, “Petabytes and Basic Physics: Today’s Surveys for Exotic Pulsars”
- 2011 Nov, Univ Florida Astronomy Colloquium, Gainesville, FL, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2011 Nov, Space Telescope Science Institute Colloquium, Baltimore, MD, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2011 Oct, Notre Dame Univ Physics Colloquium, South Bend, IN, USA, “Millisecond Pulsars: The Gifts that Keep on Giving”
- 2011 Sep, Enchanted Skies Star Party Keynote Lecture, Socorro, NM, USA, “Millisecond Pulsars: The Gifts that Keep on Giving”
- 2011 Jul, PANIC Meeting Plenary Talk, Cambridge, MA, USA, “Neutron Star Mass and Radius Measurements and the Equation of State of Cold Dense Matter”
- 2011 Jun, International Pulsar Timing Array Meeting, Snowshoe, WV, USA, “What do we need to do to make the IPTA effective?”
- 2011 Jun, International Pulsar Timing Array Student Workshop, Morgantown, WV, USA, “Millisecond Pulsars: The Gifts that Keep on Giving”
- 2011 May, Neutron Stars and Gravitational Waves meeting, Boston, MA, USA, “Prospects for Finding Pulsars Near the Galactic Center”
- 2011 May, American Physical Society meeting, Anaheim, CA, USA, “A Two Solar Mass Neutron Star”
- 2011 Apr, McGill Univ Astrophysics Seminar, Montreal, QC, Canada, “Recent Measurements of Radio Pulsar Masses”
- 2011 Mar, Canadian Institute for Advanced Research meeting, Whistler, BC, Canada, “New MSP Surprises: Fermi Sources and Massive Neutron Stars”
- 2011 Mar, U. Mass Amherst Astronomy Colloquium, Amherst, MA, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2011 Mar, Princeton Astronomy Colloquium, Princeton, NJ, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2011 Feb, Argonne National Lab Physics Colloquium, Argonne, IL, USA, “Basic Physics with Millisecond Pulsars”
- 2011 Jan, AAS Warner Prize Lecture, Seattle, WA, USA, “Millisecond Pulsars: The Gifts that Keep on Giving”
- 2010 Dec, NRAO Colloquium, Socorro, NM, USA, “Radio Millisecond Pulsars: The Gifts that Keep on Giving”
- 2010 Nov, Exploring Physics with Neutron Stars meeting, Tucson, AZ, USA, “Mass Measurements of Radio Pulsars”
- 2010 Nov, Michigan High Energy Physics / Astro Seminar, Ann Arbor, MI, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2010 Oct, Rutgers Univ. Physics Colloquium, Piscataway, NJ, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2010 Oct, Ohio State Univ Astronomy Colloquium, Columbus, OH, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2010 Oct, Radio Pulsars 2010, Sardinia, Italy “Recent Results from Targeted Pulsar Searches” (Invited Review)

- 2010 May, MIT Astrophysics Colloquium, Cambridge, MA, USA, “Radio Millisecond Pulsars: The Gifts that Keep on Giving”
- 2010 Apr, Univ of Arizona Astronomy Colloquium, Tuscon, AZ, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2010 Jan, Center for Astrophysics Colloquium, Cambridge, MA, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2010 Jan, HEAD Special Session, AAS Meeting, Washington D.C., USA, “Detecting New Millisecond Pulsars in Unidentified Fermi LAT Sources”
- 2009 Nov, Texas A&M University Astrophysics Seminar, College Station, TX, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2009 Nov, Univ of Virginia Physics Colloquium, Charlottesville, VA, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2009 Nov, Fermi Symposium, Washington D.C., “Searching for Radio Pulsars in Unidentified Fermi LAT Bright Sources” (Plenary session contributed talk)
- 2009 Oct, Univ of California at Santa Cruz Physics Colloquium, Santa Cruz, CA, USA, “Detecting Gravitational Waves (and doing other cool physics) with Millisecond Pulsars”
- 2009 May, The EVLA Vision: Stars On and Off the Main Sequence, Socorro, NM, “Pulsar Observations with the EVLA”
- 2009 May, Carnegie DTM Astro Seminar, Washington, D.C. “Radio Pulsars: The Gifts that Keep on Giving”
- 2009 Mar, Albert Einstein Institute Colloquium, Hannover, Germany, “Radio Pulsars: The Gifts that Keep on Giving”
- 2009 Feb, UCSC Physics Seminar, USA, “Astrophysics and Basic Physics from Pulsars in Crowded Places”
- 2009 Jan, Formation and Evolution of Globular Clusters, Santa Barbara, CA, USA, “Radio Pulsars in Globular Clusters”