Biographical Sketch

Dr. Ryan S. Lynch
Associate Scientist
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Professional Preparation

Pennsylvania State University	Astronomy & Astrophysics	B.S. w/ Honors, 2006
Pennsylvania State University	Physics	B.S., 2006
University of Virginia	Astronomy	M.S., 2008
University of Virginia	Astronomy	Ph.D., 2011

Appointments

Associate Scientist	Green Bank Observatory	Mar. 2018–present
Assistant Scientist	Green Bank Observatory	Oct. 2016–Mar. 2018
Adjunct	West Virgnia University	Jan. 2015–present
Assistant Scientist	National Radio Astronomy Observatory	Jan. 2015–Sept. 2016
Postdoctoral Fellow	West Virgnia University	Sept. 2014–Jan. 2015
Postdoctoral Scholar	McGill University	Sept. 2011–Aug. 2014

Publications

Closely related products:

- **Lynch, R. S.**, Swiggum, J. K., Kondratiev, V. I., Kaplan, D. L., Stovall, K., Fonseca, E., Roberts, M. S. E., Levin, L., Cui, B., Cenko, S. B., Gatkine, P., Archibald, A. M., Banaszak, S., Biwer, C. M., Boyles, J., Chawla, P., Dartez, L. P., Day, D. ,Ford., A. J., Flanigan, J., Hessels, J. W. T., Hinojosa, J., Jenet, F. A., Karako-Argaman, C., Kaspi, V. M., Leake, S., Lunsford, G., Martinez, J. G., Mata, A., McLaughlin, M., Al Noori, H., Ransom, S. M., Rohr, M. D., Siemens, X., Spiewak, R., Stairs, I. H., van Leeuwen, J., Walker, A. N., Welles, B. L., 2018, "The Green Bank North Celestial Cap Pulsar Survey II: 45 New Pulsar Timing Solutions", *The Astrophysical Journal*, 2018, 859, 93
- Scholz, P., Bogdanov, S., Hessels, J. W. T., **Lynch, R. S.**, Spitler, L. G., Bassa, C. G., Bower, G. C., Burke-Spolaor, S., Butler, B. J., Chatterjee, S., Cordes, J. M., Gourdji, K., Kaspi, V. M., Law, C. J., Marcote, B., McLaughlin, M. A., Michilli, D., Paragi, Z., Ransom, S. M., Seymour, A., Tendulkar, S. P., Wharton, R. S., "Simultaneous X-Ray, Gamma-Ray, and Radio Observations of the Repeating Fast Radio Burst FRB 121102", 2017, *The Astrophysical Journal*, 2017, 846, 80
- Gajjar, V., Siemion, A. P. V., Price, D. C., Law, C. J., Michilli, D., Hessels, J. W. T., Chatterjee, S., Archibald, A. M., Bower, G. C., Brinkman, C., Burke-Spolaor, S., Cordes, J. M., Croft, S., Enriquez, J. Emilio, Foster, G., Gizani, N., Hellbourg, G., Isaacson, H., Kaspi, V. M., Lazio, T. J. W., Lebofsky, M., **Lynch, R. S.**, MacMahon, D., McLaughlin, M. A., Ransom, S. M., Scholz, P., Seymour, A., Spitler, L. G., Tendulkar, S. P., Werthimer, D., Zhang, Y. G., "Highest Frequency Detection of FRB 121102 at 4-8 GHz Using the Breakthrough Listen Digital Backend at the Green Bank Telescope", 2018, *The Astrophysical Journal*, 863, 2
- Michilli, D., Seymour, A., Hessels, J. W. T., Spitler, L. G., Gajjar, V., Archibald, A. M., Bower, G. C., Chatterjee, S., Cordes, J. M., Gourdji, K., Heald, G. H., Kaspi, V. M., Law, C. J., Sobey, C., Adams, E. A. K., Bassa, C. G., Bogdanov, S., Brinkman, C., Demorest, P., Fernandez, F., Hellbourg, G., Lazio, T. J. W., **Lynch, R. S.**, Maddox, N., Marcote, B., McLaughlin, M. A., Paragi, Z., Ransom, S. M., Scholz, P., Siemion, A. P. V., Tendulkar, S. P., van Rooy, P., Wharton, R. S., Whitlow, D. 2018, "An extreme magneto-ionic environment associated with the fast radio burst source FRB 121102", *Nature*, 553, 182
- **Lynch, R. S.**, Archibald, R. F., Kaspi, V. M., & Scholz, P. 2015, "Green Bank Telescope and Swift X-Ray Telescope Observations of the Galactic Center Radio Magnetar SGR J1745-2900", *The Astrophysical Journal*, 806, 266

Other publications

- Chawla, P., Kaspi, V. M., Josephy, A., Rajwade, K. M., Lorimer, D. R., Archibald, A. M., DeCesar, M. E., Hessels, J. W. T., Kaplan, D. L., Karako-Argaman, C., Kondratiev, V. I., Levin, L., **Lynch, R. S.**, McLaughlin, M. A., Ransom, S. M., Roberts, M. S. E., Stairs, I. H., Stovall, K., Swiggum, J. K., van Leeuwen, J., 2017, *The Astrophysical Journal*, 884, 140
- Antoniadis, J., Freire, P., Wex, N., Tauris, T., **Lynch, R.**, van Kerkwijk, M., Kramer, M., Bassa, C., Dhillon, V., Driebe, T., Hessels, J., Kaspi, V., Kondratiev, V., Langer, N., Marsh, T., McLaughlin, M., Pennucci, T., Ransom, S., Stairs, I., van Leeuwen, J., Verbiest, J., Whelan, D., 2013, " Massive Pulsar in a Compact Relativistic Binary", *Science*, 340, 448
- **Lynch, R.**, Boyles, J., Ransom, S., Stairs, I., Lorimer, D., McLaughlin, M., Hessels, J., Kaspi, V., Kondratiev, V., Archibald, A., Berndsen, A., Cardoso, R., Cherry, A., Epstein, C., Karako-Argaman, C., McPhee, C., Pennucci, T., Roberts, M., Stovall, K., van Leeuwen, J., 2013, "The Green Bank Telescope 350 MHz Drift-scan Survey II: Data Analysis and the Timing of 10 New Pulsars, Including a Relativistic Binary", *The Astrophysical Journal*, 763, 81
- **Lynch, R.**, Lorimer, D., Ransom, S., & Boyles, J., 2012, 'A Population of Non-recycled Pulsars Originating in Globular Clusters", '*The Astrophysical Journal*, 756, 78
- **Lynch, R.**, Freire, P., Ransom, S., & Jacoby, B., 2012, "The Timing of Nine Globular Cluster Pulsars", *The Astrophysical Journal*, 745, 109

Synergistic Activities

- Project scientist, GBO 0.7–4 GHz Ultra-wideband Receiver
- Project scientist, VEGAS / VEGAS Pulsar Modes
- Senior Personnel, NANOGrav PFC
- Site Coordinator, GBO/NRAO Summer Student Program
- Advisor for six GBO undergraduate summer students