David J. Nice

Curriculum Vitae and Publications

Physics Department
Lafayette College
Easton, PA 18042
ORCID ID: 0000-0002-6709-2566

niced@lafayette.edu
http://sites.lafayette.edu/niced
office +1-610-330-5204

Positions Held:

Lafayette College
- 2024– Charles A. Dana Professor, Physics
- 2019–2024 Professor, Physics
- 2016–2024 Department Head, Physics
- 2010–2019 Associate Professor, Physics

Bryn Mawr College
- 2005–2010 Visiting Assistant Professor, Physics

Princeton University
- 1997–2005 Assistant Professor, Physics
- 1996–1997 Lecturer, Physics

National Radio Astronomy Observatory
- 1993–1996 Jansky Postdoctoral Fellow

University of Virginia
- 1995 Lecturer, Astronomy

Princeton University
- 1992–1993 Research Associate, Physics

Education:

1992 Ph.D., Physics, Princeton University
- Dissertation: *Two High-Sensitivity Pulsar Searches* (doi:10.5281/zenodo.49375)
- Supervisor: *Prof. Joseph H. Taylor, Jr.*

1989 M.A., Physics, Princeton University

1987 B.S. with Honor, Physics, California Institute of Technology

Research Interests:

Radio telescope observations of pulsars
Tests of relativistic gravity
Binary star evolution
Characteristics and physics of neutron stars
Radio telescope instrumentation, software, and data analysis
Gravitational waves at nanohertz frequencies (NANOGrav collaboration)

Selected Service Work (at Lafayette College unless otherwise indicated):

2025–	Member, Workplace Culture Strategic Plan Implementation Action Team
2024	Member, Working at Lafayette Strategic Plan Working Group
2023–	Member, Promotion, Tenure, and Review Committee
2023	Co-chair, Vice President for Student Life Search Committee
2023	Chair, Physics Visiting Faculty Search Committee (two positions)
2022–2023	Member, Faculty Academic Policy Committee
2022–2023	Faculty Associate, Trustees Committee on Student Life, Lafayette Coll.
2022	Chair, Physics Visiting Faculty Search Committee (two positions)
2025–2026	Member, Scientific Organizing Committee, IPTA 2026, South Africa
2021–2024	Member, Management Team, NANOGrav collaboration
2021–2022	Alternate Faculty Associate, Trustees Committee on Student Life
2020–2021	Member, Faculty Academic Policy Committee
2011–2020	Chair, Pulsar Timing Working Group, NANOGrav collaboration
2018–2019	Chair, Academic Research Committee
2016–2019	Member, Academic Research Committee
2019	Organizer, NANOGrav Timing Working Group Workshop (held at Lafayette)
2019	Chair, Physics Faculty Search Committee
2019	Chair, Physics Visiting Faculty Search Committee
2017	Organizer, NANOGrav Collaboration Workshop (held at Lafayette)
2017	Honors Examiner, Oberlin College Physics Department
2017	Chair, Physics Faculty Search Committee (two positions)
2017	Chair, Physics Visiting Faculty Search Committee
2015	Member, Math Visiting Faculty Search Committee
2014–2015	Chair, Information Technology & Library Committee
2013–2015	Member, Information Technology & Library Committee
2014	Chair, Scientific Org. Committee, Int'l Pulsar Timing Array meeting, Banff
2013–2014	Member, Electrical & Computer Engineering Faculty Search Committee
2011–2012	Chair, Ad Hoc Publication Policy Group, NANOGrav collaboration
2011	Special Session Organizer, American Astronomical Society Meeting, Seattle
2008–2011	Chair, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
2004–2011	Member, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
2008	Session Organizer, Texas Symposium on Relativistic Astrophysics, Vancouver
2008	Scientific Organizing Committee, Int'l Pulsar Timing Array Meeting, Arecibo, PR
2005–2007	Member, Users Committee, National Astronomy and Ionosphere Center
2003–2005	Member, Committee on Undergraduate Life, Princeton University
2003	Organizer, Baseband Recorder Workshop, IAU Symposium 218, Sydney
2002	Organizer, Radio Pulsars Conference, Chania, Crete
2001	Chair, Users Committee, National Radio Astronomy Observatory
2001	Honors Examiner, Oberlin College Physics Department
1998–2004	Academic Adviser & Faculty Fellow, Mathey College, Princeton University
1998–2001	Member, Users Committee, National Radio Astronomy Observatory

Publications

Books Edited:

1. **Radio Pulsars**
   M. Bailes, D. J. Nice, and S. E. Thorsett, editors
   2003 (San Francisco: Astronomical Society of the Pacific)
   ISBN: 1-58381-151-6

Peer-Reviewed Publications:

1. **The NANOGrav 15 yr Data Set: Piecewise Power-Law Reconstruction of the Gravitational-Wave Background**
   G. Agazie *et al.* (NANOGrav collaboration)
   Astrophysical Journal Letters, accepted May 2026
   arXiv:2601.09481

2. **The NANOGrav 15-Year Data Set: A Case Study for Simplified Dispersion Measure Modeling for PSR J1455-3330 and the Impact on Gravitational Wave Sensitivity**
   M. Lam *et al.* (NANOGrav Timing Working Group)
   Astrophysical Journal, acccepted May 2026
   arXiv:2506.03597

3. **CHIME-o-Grav: Wideband Timing of Four Millisecond Pulsars from the NANOGrav 15-yr dataset"**
   G. Agazie *et al.* (NANOGrav timing group)
   Astrophysical Journal, 1002, 16 (2026)
   doi:10.3847/1538-4357/ae563f, arXiv:2510.16668

4. **The NANOGrav 12.5-year Data Set: Chromatic Noise Characterization and Mitigation with Time-Domain Kernels**
   J. S. Hazboun *et al.* (NANOGrav collaboration)
   Astrophysical Journal, 1003, 34 (2026)
   doi:10.3847/1538-4357/ae4ee0, arXiv:2511.22597

5. **Searching for Exotrojans in Pulsar Binary Systems**
   J. D. Taylor *et al.* (NANOGrav timing group)
   Astrophysical Journal, 1000, 82 (2026)
   doi:10.3847/1538-4357/ae4317, arXiv:2510.16164

6. **The NANOGrav 15-Year Data Set: Improved Timing Precision with VLBI Astrometric Priors**
   S. V. Sosa Fiscella *et al.* (NANOGrav timing and noise budget groups)
   Astrophysical Journal, 999, 156 (2026)
   doi:10.3847/1538-4357/ae39c9, arXiv:2509.21203

7. **The NANOGrav 15 yr Data Set: Targeted Searches for Supermassive Black Hole Binaries**
   N. Agarwal *et al.* (NANOGrav collaboration)
   Astrophysical Journal Letters, 998, L11 (2026)
   doi:10.3847/2041-8213/ae3719, arXiv:2508.16534

8. **Inferring $M_{\rm BH} - M_{\rm bulge}$ Evolution from the Gravitational Wave background**
   C. Matt *et al.* (NANOGrav collaboration)
   Astrophysical Journal, 997, 188 (2026)
   doi:10.3847/1538-4357/ae2480, arXiv:2508.18126

9. **NANOGrav 15-year Data Set: Search for Gravitational Scattering of Pulsars by Free-Floating Objects in Interstellar Space**
   L. Dey *et al.* (NANOGrav Timing Working Group)
   Astrophysical Journal, 997, 116 (2026)
   doi:10.3847/1538-4357/ae279d, arXiv:2507.19475

10. **Rapid Construction of Joint Pulsar Timing Array Datasets: The Lite Method**
    B. Larsen *et al.* (Int'l Pulsar Timing Array)
    Monthly Notices of the Royal Astronomical Society, 542, 3028 (2025)
    doi:10.1093/mnras/staf1420, arXiv:2503.20949

11. **The NANOGrav 15-year Data Set: Search for Gravitational Wave Memory**
    G. Agazie *et al.* (NANOGrav collaboration)
    Astrophysical Journal, 987, 5 (2025)
    doi:10.3847/1538-4357/add874, arXiv:2502.18599

12. **The NANOGrav 12.5-Year Data Set: Probing Interstellar Turbulence and Precision Pulsar Timing with PSR J1903+0327**
    A. Geiger *et al.* (NANOGrav timing group and others)
    Astrophysical Journal, 986, 191 (2025)
    doi:10.3847/1538-4357/add0b6, arXiv:2411.08191

13. **The NANOGrav 15 yr Data Set: Harmonic Analysis of the Pulsar Angular Correlations**
    G. Agazie *et al.* (NANOGrav collaboration)
    Astrophysical Journal, 985, 99 (2025)
    doi:10.3847/1538-4357/adc997, arXiv:2411.13472

14. **Pulse Profile Variability of PSR J1022+1001 in NANOGrav Data**
    W. Fiore *et al.* (NANOGrav timing group)
    Astrophysical Journal, 984, 139 (2025)
    doi:10.3847/1538-4357/adc255, arXiv:2412.05452

15. **The Anomalous Acceleration of PSR J2043+1711: Long-Period Orbital Companion or Stellar Flyby?**
    T. Donlon *et al.* (NANOGrav timing group)
    Astrophysical Journal, 983, 62 (2025)
    doi:10.3847/1538-4357/adbf90, arXiv:2407.06482

16. **A 34-Year Timing Solution of the Redback Millisecond Pulsar Terzan 5A**
    A. C. Rosenthal *et al.*
    Astrophysical Journal, 982, 170 (2025)
    doi:10.3847/1538-4357/adb8cd, arXiv:2410.21648

17. **The NANOGrav 15 yr Data Set: Posterior Predictive Checks for Gravitational-Wave Detection with Pulsar Timing Arrays**
    G. Agazie *et al.* (NANOGrav collaboration)
    Physical Review D, 111, 042011 (2025)
    doi:10.1103/PhysRevD.111.042011, arXiv:2407.20510

18. **The NANOGrav 15 yr Data Set: Running of the Spectral Index**
    G. Agazie *et al.* (NANOGrav collaboration)
    Astrophysical Journal Letters, 978, L29 (2025)
    doi:10.3847/2041-8213/ad99d3, arXiv:2408.10166

19. **The NANOGrav 15 yr Data Set: Removing Pulsars One by One from the Pulsar Timing Array**
    G. Agazie *et al.* (NANOGrav collaboration)
    Astrophysical Journal, 978, 168 (2025)
    doi:10.3847/1538-4357/ad93aa, arXiv:2411.14846

20. **The NANOGrav 15 yr Data Set: Looking for Signs of Discreteness in the Gravitational-wave Background**
G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal, 978, 31 (2025)
doi:10.3847/1538-4357/ad93d5, arXiv:2404.07020

21. **Exploring Pulsar Timing precision: A Comparative Study of Polarization Calibration Methods for NANOGrav Data from the Green Bank Telescope**
L. Dey *et al.* (NANOGrav timing group)
Astrophysical Journal, 977, 114 (2024)
doi:10.3847/1538-4357/ad8c24, arXiv:2406.13463

22. **The NANOGrav 15-year Gravitational-Wave Background Methods**
A. D. Johnson *et al.* (NANOGrav collaboration)
Physical Review D, 109, 103012 (2024)
doi:10.1103/PhysRevD.109.103012, arXiv:2306.16223

23. **The NANOGrav 15 yr Data Set: Chromatic Gaussian Process Noise Model for Six Pulsars**
B. Larsen *et al.* (NANOGrav timing group and others)
Astrophysical Journal, 972, 49 (2024)
doi:10.3847/1538-4357/ad5291, arXiv:2405.14941

24. **Comparing Recent PTA Results on the Nanohertz Stochastic Gravitational Wave Background**
G. Agazie *et al.* (International Pulsar Timing Array)
Astrophysical Journal, 966, 105 (2024)
doi:10.3847/1538-4357/ad36be, arXiv:2309.00693

25. **The NANOGrav 12.5-year Data Set: Dispersion Mis-Estimation with Varying Bandwidths**
S. V. Sosa Fiscella *et al.* (NANOGrav Noise Budget and Timing Working Groups)
Astrophysical Journal, 966, 95 (2024)
doi:10.3847/1538-4357/ad2858, arXiv:2307.13248

26. **An Unusual Pulse Shape Change Event in PSR J1713+0747 Observed with the Green Bank Telescope and CHIME**
R. Jennings *et al.* (NANOGrav Noise Budget and Timing Working Groups; CHIME/Pulsar)
Astrophysical Journal, 964, 179 (2024)
doi:10.3847/1538-4357/ad2930, arXiv:2210.12266

27. **The NANOGrav 15-year Data Set: Search for Transverse Polarization Modes in the Gravitational-Wave Background**
G. Agazie *et al.* (NANOGrav Collaboration)
Astrophysical Journal Letters, 964, L14 (2024)
doi:10.3847/2041-8213/ad2a51, arXiv:2310.12138

28. **The NANOGrav 12.5-year data set: A Computationally Efficient Eccentric Binary Search Pipeline and Constraints on an Eccentric Supermassive Binary in 3C 66B**
G. Agazie et al. (NANOGrav collaboration)
Astrophysical Journal, 963, 144 (2024)
doi:10.3847/1538-4357/ad1f61, arXiv:2309.17438

29. **The NANOGrav 12.5-year Data Set: Search for Gravitational Wave Memory**
G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal, 963, 61 (2024)
doi:10.3847/1538-4357/ad0726, arXiv:2307.13797

30. **How to Detect an Astrophysical Nanohertz Gravitational Wave Background**
B. Bécsy *et al.* (NANOGrav collaboration)
Astrophysical Journal, 959, 9 (2023)
doi:10.3847/1538-4357/ad09e4, arXiv:2309.04443

31. **The NANOGrav 15-year Data Set: Search for Anisotropy in the Gravitational-Wave Background**
G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 956, L3 (2023)
doi:10.3847/2041-8213/acf4fd, arXiv:2306.16221

32. **The NANOGrav 15-year Data Set: Constraints on Supermassive Black Hole Binaries from the Gravitational Wave Background**
G. Agaze *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 952, L37 (2023)
doi:10.3847/2041-8213/ace18b, arXiv:2306.16220

33. **The NANOGrav 15-year data set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**
G. Agazie *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L50 (2023)
doi:10.3847/2041-8213/ace18a, arXiv:2306.16222

34. **The NANOGrav 12.5-year data set: Bayesian Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**
Z. Arzoumanian *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L28 (2023)
doi:10.3847/2041-8213/acdbc7, arXiv:2301.03608

35. **The NANOGrav 15-year Data Set: Evidence for a Gravitational-Wave Background**
G. Agaze *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L8, (2023)
doi:10.3847/2041-8213/acdac6, arXiv:2306.16213

36. **The NANOGrav 15-year Data Set: Observations and Timing of 68 Millisecond Pulsars**
G. Agaze *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L9 (2023)
doi:10.3847/2041-8213/acda9a, arXiv:2306.16217

37. **The NANOGrav 15-year Data Set: Detector Characterization and Noise Budget**
G. Agaze *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L10 (2023)
doi:10.3847/2041-8213/acda88, arXiv:2306.16218

38. **The NANOGrav 15-year Data Set: Search for Signals from New Physics**
A. Afzal*et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 951, L11 (2023)
doi:10.3847/2041-8213/acdc91, arXiv:2306.16219

39. **Searching for continuous Gravitational Waves in the second data release of the International Pulsar Timing Array**
M. Falxa *et al.* (International Pulsar Timing Array collaboration)
Monthly Notices of the Royal Astronomical Society, 521, 5077 (2023)
doi:10.1093/mnras/stad812, arXiv:2303.10767

40. **Bayesian Solar Wind Modeling with Pulsar Timing Arrays**
J. S. Hazboun *et al.* (NANOGrav Timing and Noise Budget Working Groups)
Astrophysical Journal, 929, 39 (2022)
doi:10.3847/1538-4357/ac5829, arXiv:2111.09361

41. **The NANOGrav 12.5-year Data Set: Polarimetry, Rotation Measures, and Galactic Magnetic Field Strengths from NANOGrav Observations with the Green Bank Telescope**
H. M. Wahl *et al.* (NANOGrav Timing Working Group)
Astrophysical Journal, 168, 23 (2022)
doi:10.3847/1538-4357/ac4045, arXiv:2104.05723

42. **The International Pulsar Timing Array second data release: Search for an isotropic Gravitational Wave Background**
J. Antoniadis *et al.* (International Pulsar Timing Array collaboration)
Monthly Notices of the Royal Astronomical Society, 510, 4873 (2022)
doi:10.1093/mnras/stab3418, arXiv:2201.03980

43. **Searching For Gravitational Waves From Cosmological Phase Transitions With The NANOGrav 12.5-year dataset**
Z. Arzoumanian *et al.* (NANOGrav collaboration)
Physical Review Letters, 127, 251302 (2021)
doi:10.1103/PhysRevLett.127.251302, arXiv:2104.13930

44. **The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-Wave Background**
Z. Arzoumanian *et al.* (NANOGrav collaboration)
Astrophysical Journal Letters, 923, L22 (2021)
doi:10.3847/2041-8213/ac401c, arXiv:2109.14706

45. **The NANOGrav 12.5-year Data Set: Monitoring Interstellar Scattering Delays**
J. E. Turner *et al.*
Astrophysical Journal, 917, 10 (2021)
doi:10.3847/1538-4357/abfafe, arXiv:2012.09884

46. **Refined Mass and Geometric Measurements of the High-Mass PSR J0740+6620**
E. Fonseca *et al.*
Astrophysical Journal Letters, 915, L12 (2021)
doi:10.3847/2041-8213/ac03b8, arXiv:2104.00880

47. **The NANOGrav 11yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500Mpc**
Z. Arzoumanian *et al.*
Astrophysical Journal, 914, 121 (2021)
doi:10.3847/1538-4357/abfcd3, arXiv:2101.02716

48. **Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection**
N. S. Pol *et al.*
Astrophysical Journal Letters, 911, L34, (2021)
doi:10.3847/2041-8213/abf2c9, arXiv:2010.11950

49. **The NANOGrav 12.5-year Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars**
M. F. Alam *et al.*
Astrophysical Journal Supplement Series, 252, 4 (2021)
doi:10.3847/1538-4365/abc6a0, arXiv:2005.06490

50. **The NANOGrav 12.5-year Data Set: Wideband Timing of 47 Millisecond Pulsars**
M. F. Alam *et al.*
Astrophysical Journal Supplement Series, 252, 5 (2021)
doi:10.3847/1538-4365/abc6a1,arXiv:2005.06495

51. **The NANOGrav 12.5-year Data Set: Search for an Isotropic Stochastic Gravitational-Wave Background**
Z. Arzoumanian *et al.*
Astrophysical Journal Letters, 905, L34 (2020)
doi:10.3847/2041-8213/abd401, arXiv:2009.04496

52. **Multi-Messenger Gravitational Wave Searches with Pulsar Timing Arrays: Application to 3C66B Using the NANOGrav 11-year Data Set**
Z. Arzoumanian *et al.*
Astrophysical Journal, 900, 102 (2020)
doi:10.3847/1538-4357/ababa1, arXiv:2005.07123

53. **Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays**
M. Vallisneri *et al.*
Astrophysical Journal, 893, 112 (2020)
doi:10.3847/1538-4357/ab7b67, arXiv:2001.00595

54. **The NANOGrav 11-year Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars**
E. A. Behrens *et al.*
Astrophysical Journal Letters, 893, L8 (2020)
doi:10.3847/2041-8213/ab8121, arXiv:1912.00482

55. **The NANOGrav 11-Year Data Set: Evolution of Gravitational Wave Background Statistics**
J. Hazboun *et al.*
Astrophysical Journal, 890, 108 (2020)
doi:10.3847/1538-4357/ab68db, arXiv:1909.08644

56. **The NANOGrav 11-Year Data Set: Limits on Gravitational Wave Memory**
K. Aggarwal *et al.*
Astrophysical Journal, 889, 38 (2020)
doi:10.3847/1538-4357/ab6083, arXiv:1911.08488

57. **A very massive neutron star: relativistic Shapiro delay measurements of PSR J0740+6620**
H. T. Cromartie *et al.*
Nature Astronomy, 4, 72 (2020)
doi:10.1038/s41550-019-0880-2, arXiv:1904.06759

58. **A Pulsar-based Timescale from the International Pulsar Timing Array**
G. Hobbs *et al.*
Monthly Notices of the Royal Astronomical Society, 491, 5951 (2020)
doi:10.1093/mnras/stz3071, arXiv:1910.13628

59. **The International Pulsar Timing Array: Second Data Release**
B. B. P. Perera *et al.*
Monthly Notices of the Royal Astronomical Society, 490, 4666 (2019)
doi:10.1093/mnras/stz2857, arXiv:1909.04534

60. **The NANOGrav 11-Year Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**
K. Aggarwal *et al.*
Astrophysical Journal, 880, 116 (2019)
doi:10.3847/1538-4357/ab2236, arXiv:1812.11585

61. **High-Precision X-ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio**
J. S. Deneva *et al.*
Astrophysical Journal, 874, 160 (2019)
doi:10.3847/1538-4357/ab0966, arXiv:1902.07130

62. **The NANOGrav 12.5-Year Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars**
M. Lam *et al.*
Astrophysical Journal, 872, 193 (2019)
doi:10.3847/1538-4357/ab01cd, arXiv:1809.03058

63. **The NANOGrav 11-year Data Set: Solar Wind Sounding Through Pulsar Timing**
D. R. Madison *et al.*
Astrophysical Journal, 872, 150 (2019)
doi:10.3847/1538-4357/ab01fd, arXiv:1808.07078

64. **PSR J2234+0611: A New Laboratory for Stellar Evolution**
K. Stovall *et al.*
Astrophysical Journal, 870, 74 (2019)
doi:10.3847/1538-4357/aaf37d, arXiv:1809.05064

65. **Tests of Gravitational Symmetries with Pulsar Binary J1713+0747**
W. W. Zhu *et al.*
Monthly Notices of the Royal Astronomical Society, 482, 3249 (2019)
doi:10.1093/mnras/sty2905, arXiv:1802.09206

66. **Studying the Solar System with the International Pulsar Timing Array**
R. N. Caballero *et al.*
Monthly Notices of the Royal Astronomical Society, 481, 5501 (2018)
doi:10.1093/mnras/sty2632, arXiv:1809.10744

67. **The NANOGrav 11-year Data Set: Pulse Profile Variability**
P. R. Brook *et al.*
Astrophysical Journal, 868, 122 (2018)
doi:10.3847/1538-4357/aae9e3, arXiv:1810.08269

68. **A VLBI Distance and Transverse Velocity for PSR B1913+16**
A. T. Deller, J. M. Weisberg, D. J. Nice, and S. Chatterjee
Astrophysical Journal, 862, 139 (2018)
doi:10.3847/1538-4357/aacf95, arXiv:1806.10265

69. **The NANOGrav Eleven-Year Data Set: Polarimetry and Pulse Microcomponents**
P. Gentile *et al.*
Astrophysical Journal, 862, 47 (2018)
doi:10.3847/1538-4357/aac9c9, arXiv:1807.00708

70. **A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747**
M. Lam *et al.*
Astrophysical Journal, 861, 132 (2018)
doi:10.3847/1538-4357/aac770, arXiv:1712.03651

71. **The NANOGrav 11-Year Data Set: Pulsar-Timing Constraints on the Stochastic Gravitational-Wave Background**
Z. Arzoumanian *et al.*
Astrophysical Journal, 859, 47 (2018)
doi:10.3847/1538-4357/aabd3b, arXiv:1801.02617

72. **The NANOGrav 11-Year Data Set: High-Precision Timing of 45 Millisecond Pulsars**
Z. Arzoumanian *et al.*
Astrophysical Journal Supplement Series, 235, 37 (2018)
doi:10.3847/1538-4365/aab5b0, arXiv:1801.01837

73. **The NANOGrav Nine-Year Data Set: Measurement and Interpretation of Variations in Dispersion Measures**
M. Jones *et al.*
Astrophysical Journal, 841, 125 (2017)
doi:10.3847/1538-4357/aa73df, arXiv:1612.03187

74. **The NANOGrav Nine-Year Data Set: Excess Noise in Millisecond Pulsar Arrival Times**
M. Lam *et al.*
Astrophysical Journal, 834, 35 (2017)
doi:10.3847/1538-4357/834/1/35, arXiv:1610.01731

75. **The NANOGrav Nine-Year Data Set: Mass and Geometric Measurements of Binary Millisecond Pulsars**
E. Fonseca *et al.*
Astrophysical Journal, 832, 167 (2016)
doi:10.3847/0004-637X/832/2/167, arXiv:1603.00545

76. **PSR J1024−0719: A Millisecond Pulsar in an Unusual Long-Period Orbit**
D. Kaplan *et al.*
Astrophysical Journal, 826, 86 (2016)
doi:10.3847/0004-637X/826/1/86, arXiv:1604.00131

77. **The NANOGrav Nine-Year Data Set: Limits on the Isotropic Stochastic Gravitational Wave Background**
Z. Arzoumanian *et al.*
Astrophysical Journal, 821, 13 (2016)
doi:10.3847/0004-637X/821/1/13, arXiv:1508.03024

78. **From Spin Noise to Systematics: Stochastic Processes in the First International Pulsar Timing Array Data Release**
L. Lentati *et al.*
Monthly Notices of the Royal Astronomical Society, 458, 2161 (2016)
doi:10.1093/mnras/stw395, arXiv:1602.05570

79. **The International Pulsar Timing Array: First Data Release**
J. P. W. Verbiest *et al.*
Monthly Notices of the Royal Astronomical Society, 458, 1267 (2016)
doi:10.1093/mnras/stw347, arXiv:1602.03640

80. **The NANOGrav Nine-Year Data Set: Noise Budget for Pulsar Arrival Times on Intraday Timescales**
M. Lam *et al.*
Astrophysical Journal, 819, 155 (2016)
doi:10.3847/0004-637X/819/2/155, arXiv:1512.08326

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