

David J. Nice  
Curriculum Vitae and Publications

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Physics Department  
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**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):**

|           |                                                                                 |
|-----------|---------------------------------------------------------------------------------|
| 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)                |
| 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 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

### 2. 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

### 3. 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

### 4. 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

### 5. 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/adbf8cd, arXiv:2410.21648

### 6. 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

### 7. 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

### 8. 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

9. **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
10. **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
11. **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
12. **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
13. **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
14. **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
15. **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
16. **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
17. **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
18. **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

19. **How to Detect an Astrophysical Nanohertz Gravitational Wave Background**  
B. Bécsey *et al.* (NANOGrav collaboration)  
*Astrophysical Journal*, 959, 9 (2023)  
doi:10.3847/1538-4357/ad09e4, arXiv:2309.04443
20. **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
21. **The NANOGrav 15-year Data Set: Constraints on Supermassive Black Hole Binaries from the Gravitational Wave Background**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 952, L37 (2023)  
doi:10.3847/2041-8213/ace18b, arXiv:2306.16220
22. **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
23. **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
24. **The NANOGrav 15-year Data Set: Evidence for a Gravitational-Wave Background**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L8, (2023)  
doi:10.3847/2041-8213/acdac6, arXiv:2306.16213
25. **The NANOGrav 15-year Data Set: Observations and Timing of 68 Millisecond Pulsars**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L9 (2023)  
doi:10.3847/2041-8213/acda9a, arXiv:2306.16217
26. **The NANOGrav 15-year Data Set: Detector Characterization and Noise Budget**  
G. Agazie *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L10 (2023)  
doi:10.3847/2041-8213/acda88, arXiv:2306.16218
27. **The NANOGrav 15-year Data Set: Search for Signals from New Physics**  
A. Afzalet *et al.* (NANOGrav collaboration)  
*Astrophysical Journal Letters*, 951, L11 (2023)  
doi:10.3847/2041-8213/acdc91, arXiv:2306.16219
28. **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

29. **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
30. **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
31. **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
32. **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
33. **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
34. **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/abfafa, arXiv:2012.09884
35. **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
36. **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/abfed3, arXiv:2101.02716
37. **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
38. **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

39. **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
40. **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
41. **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
42. **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
43. **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
44. **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
45. **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
46. **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
47. **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
48. **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

49. **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
50. **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
51. **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
52. **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
53. **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
54. **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
55. **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
56. **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
57. **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
58. **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
59. **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

60. **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
61. **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
62. **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
63. **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
64. **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
65. **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
66. **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
67. **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
68. **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
69. **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

70. **The NANOGrav Nine-Year Data Set: Monitoring Interstellar Scattering Delays**  
L. Levin *et al.*  
*Astrophysical Journal*, 818, 166 (2016)  
doi:doi:10.3847/0004-637X/818/2/166, arXiv:1601.04490
71. **The NANOGrav Nine-Year Data Set: Astrometric Measurements of 37 Millisecond Pulsars**  
A. Matthews *et al.*  
*Astrophysical Journal*, 818, 92 (2016)  
doi:10.3847/0004-637X/818/1/92, arXiv:1509.08982
72. **The NANOGrav Nine-Year Data Set: Observations, Arrival Time Measurements, and Analysis of 37 Millisecond Pulsars**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 813, 65 (2015)  
doi:10.1088/0004-637X/813/1/65, arXiv:1505.07540
73. **NANOGrav Constraints on Gravitational Wave Bursts with Memory**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 810, 150 (2015)  
doi:10.1088/0004-637X/810/2/150, arXiv:1501.05343
74. **Testing Theories of Gravitation Using 21-Year Timing of Pulsar Binary J1713+0747**  
W. W. Zhu *et al.*  
*Astrophysical Journal*, 809, 41 (2015)  
doi:10.1088/0004-637X/809/1/41, arXiv:1504.00662
75. **The Binary Companion of Young, Relativistic Pulsar J1906+0746**  
J. van Leeuwen *et al.*  
*Astrophysical Journal*, 798, 118 (2015)  
doi:10.1088/0004-637X/798/2/118, arXiv:1411.1518
76. **Gravitational Waves from Individual Supermassive Black Hole Binaries in Circular Orbits: Limits from the North American Nanohertz Observatory for Gravitational Waves**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 794, 141 (2014)  
doi:10.1088/0004-637X/794/2/141, arXiv:1404.1267
77. **Arecibo Pulsar Survey Using ALFA. III. Precursor Survey and Population Synthesis**  
J. K. Swiggum *et al.*  
*Astrophysical Journal*, 787, 137 (2014)  
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