

Stephen R. Taylor | Presentations

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- 91 oral presentations (of which 54 were invited), with 15 conference leadership roles.
- Full list of presentations given below, and at <http://bit.ly/2xpZvrD>.

Invited talks.....

54. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Joint DAA-DTP-InPTA Seminar (via Zoom), Tata Institute of Fundamental Research, **Mar 2021**
53. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Theoretical Astrophysics Seminar (via Zoom), University of Florida, **Mar 2021**
52. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Department of Physics & Astronomy Colloquium (via Zoom), Western Kentucky University, **Feb 2021**
51. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Department of Physics Seminar (via Zoom), Southern Methodist University, **Nov 2020**
50. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Bahcall Lunch (via Zoom), Princeton University, **Oct 2020**
49. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
SITP Seminar (via Zoom), Stanford University, **Oct 2020**
48. *New Results From The Pulsar Timing Array Hunt For Nanohertz-frequency Gravitational Waves*
Birmingham Astrophysics Seminar (via Zoom), University of Birmingham, Birmingham, UK, **Oct 2020**
47. *Charting The Next Frontier Of Gravitational Wave Astronomy With Pulsar Timing Arrays*
CIERA Astrophysics Seminar (via Zoom), CIERA, Northwestern University, **Sep 2020**
46. *Charting The Next Frontier Of Gravitational Wave Astronomy With Pulsar Timing Arrays*
Astrophysical and Cosmological Relativity Seminar (via Zoom), Albert Einstein Institute, Potsdam, Germany, **Jul 2020**
45. *Pulsar Timing Arrays: The Next Window On The Warped Universe*
NSF QuarkNet Seminar (via Zoom), Vanderbilt University, Nashville TN, USA, **Jun 2020**
44. *Charting The Next Frontier Of Gravitational Wave Astronomy With Pulsar Timing Arrays*
Deutsche Forschungsgemeinschaft Research Training Group "Models Of Gravity" Colloquium (via Zoom), University of Bielefeld, Bielefeld, Germany, **Jun 2020**
43. *Charting The Next Frontier Of Nanohertz Gravitational Wave Astronomy With The International Pulsar Timing Array*
Invited seminar, l'Observatoire de Paris, Paris, France, **Dec 2019**
42. *Pulsar Timing Arrays: The Next Frontier of Gravitational Wave Astronomy*
Department of Physics Colloquium, Franklin & Marshall College, Lancaster PA, USA, **Nov 2019**
41. *Pulsar Timing Arrays: The Next Frontier of Gravitational Wave Astronomy*
Astrophysics Division Seminar, NASA Goddard Space Flight Center, MD, USA, **Nov 2019**
40. *Supermassive Black Hole Demographics In The Era Of Multimessenger Pulsar Timing Array Detection*
Invited talk, SESAPS 2019 (South Eastern Section of the APS), Wilmington NC, USA, **Nov 2019**
39. *Pulsar Timing Arrays: The Next Frontier of Gravitational Wave Astronomy*
The Josephine Lawrence Hopkins Foundation Colloquium, Cornell University, Ithaca NY, USA, **Oct 2019**

38. *Pulsar Timing Arrays: The Next Frontier Of Gravitational Wave Astronomy*
Plenary presentation, 22nd International Conference on General Relativity and Gravitation (GR22) & 13th Edoardo Amaldi Conference on Gravitational Waves (Amaldi13), Valencia, Spain, **Jul 2019**
37. *Solar System Ephemeris Noise*
OzGrav Pulsar Timing Workshop, Swinburne University of Technology, Melbourne, Australia, **May 2019**
36. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department colloquium, Institute of Astronomy, University of Cambridge, Cambridge, UK, **Mar 2019**
35. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
CGCA Seminar, University of Wisconsin–Milwaukee, Milwaukee WI, USA, **Mar 2019**
34. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Invited seminar, Flatiron Center for Computational Astrophysics, New York NY, USA, **Feb 2019**
33. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department of Physics & Astronomy colloquium, University of Mississippi, Oxford MS, USA, **Feb 2019**
32. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department of Physics & Astronomy colloquium, Vanderbilt University, Nashville TN, USA, **Jan 2019**
31. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department of Physics & Astronomy colloquium, Carnegie Mellon University, Pittsburgh PA, USA, **Jan 2019**
30. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department of Physics & Astronomy colloquium, University of Minnesota, Minneapolis MN, USA, **Jan 2019**
29. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Department of Physics colloquium, University of Virginia, Charlottesville VA, USA, **Jan 2019**
28. *Supermassive Black-hole Demographics In The Era of Nanohertz Multi-messenger Astronomy*
American Astronomical Society, Seattle WA, USA, **Jan 2019**
27. *Compact Object Genealogy Across The Gravitational Wave Spectrum*
UVa+NRAO WUNA Lunch Talk, University of Virginia, Charlottesville VA, USA, **Oct 2018**
26. *Frontiers Of Pan-Spectral Gravitational-Wave Astrophysics*
Invited departmental seminar, Radboud University, Nijmegen, Netherlands, **Oct 2018**
25. *Compact Object Genealogy Across The Gravitational Wave Spectrum*
CGCA Seminar, University of Wisconsin–Milwaukee, Milwaukee WI, USA, **Sep 2018**
24. *Compact Object Genealogy Across The Gravitational Wave Spectrum*
USC Colloquium, University of Southern California, Los Angeles CA, USA, **Sep 2018**
23. *Compact Object Genealogy Across The Gravitational Wave Spectrum*
TAPIR Seminar, California Institute of Technology, Pasadena CA, USA, **Sep 2018**
22. *Nanohertz-frequency gravitational-wave astrophysics with pulsar-timing arrays*
COSPAR 2018, Pasadena CA, USA, **Jul 2018**
21. *Pulsar Timing Arrays: new advances toward detecting low-frequency gravitational waves*
American Physical Society, Columbus OH, USA, **Apr 2018**
20. *Beyond black holes with pulsar-timing arrays*
University of Virginia colloquium, Charlottesville VA, USA, **Mar 2018**
19. *Non-BH science with pulsar-timing arrays*
Black Holes Across The GW Spectrum, International Institute of Physics, Natal, Brazil, **Aug 2017**
18. *Bayesian inference for pulsar-timing arrays*
Black Holes Across The GW Spectrum, International Institute of Physics, Natal, Brazil, **Aug 2017**
17. *Supermassive black-hole binary astrophysics with pulsar-timing arrays*
Black Holes Across The GW Spectrum, International Institute of Physics, Natal, Brazil, **Aug 2017**
16. *Probing the nanohertz GW landscape with PTAs: a status report*
Gravitational Wave Physics & Astronomy Workshop (GWPAW), Annecy, France, **May 2017**
15. *GW constraints on disc migration via pulsar timing*
The disc migration issue (Kavli workshop), Institute of Astronomy, Cambridge, UK, **May 2017**

14. *Constraining the physics of the final parsec of supermassive black-hole binary evolution*
Astronomy Colloquium, Swinburne University of Technology, Melbourne, Australia, **Feb 2017**
13. *Astrophysical inference of supermassive black-hole binaries with pulsar-timing arrays*
Leonard E. Parker Center seminar, University of Wisconsin–Milwaukee, Milwaukee WI, USA, **Oct 2016**
12. *Astrophysical inference of supermassive black-hole binaries with pulsar-timing arrays*
CIERA seminar, Northwestern University, Evanston IL, USA, **Oct 2016**
11. *New data-analysis approaches for gravitational-wave searches with pulsar-timing arrays*
Montana State University seminar, Bozeman MT, USA, **Oct 2016**
10. *New horizons in gravitational-wave astronomy with pulsar-timing arrays*
Armagh Observatory seminar, Armagh, UK, **Jul 2016**
9. *Probing the final-parsec problem with pulsar-timing arrays*
Anton Pannekoek Instituut seminar, University of Amsterdam, Amsterdam, Netherlands, **Jul 2016**
8. *Probing the final-parsec problem with pulsar-timing arrays*
Radboud University astrophysics seminar, Radboud, Netherlands, **Jul 2016**
7. *Gravitational-wave data-analysis techniques for pulsar-timing arrays*
IPTA conference, Stellenbosch, South Africa, **Jun 2016**
6. *Sources of nanohertz gravitational-waves for pulsar-timing array searches*
NANOGrav student workshop, Caltech, Pasadena CA, USA, **Mar 2016**
5. *Prospects for near future detection and astrophysical inference with PTAs*
Gravitational-wave group seminar, University of Birmingham, UK, **Dec 2015**
4. *Prospects for near future detection and astrophysical inference with PTAs*
Statistics group seminar (School of Mathematics), University of Edinburgh, UK, **Dec 2015**
3. *Prospects for near future detection and astrophysical inference with PTAs*
CaJAGWR seminar, California Institute of Technology, Pasadena, USA, **Dec 2015**
2. *Searching For Anisotropic Gravitational-wave Backgrounds Using Pulsar Timing Arrays*
Albert Einstein Institute (AEI) GW seminar, Hanover, Germany, **May 2013**
1. *Weighing the evidence for a gravitational-wave background*
Gravitational-wave group seminar, University of Birmingham, UK, **Dec 2012**

Contributed presentations.....

37. *Mapping The Ultra Low-Frequency Gravitational-Wave Sky With A Network Of Pulsars*
14th Amaldi Meeting (Virtual), **Jul 2021**
36. *Fast Bayesian GWB Amplitude Estimation Through Parallelized Methods*
IPTA Meeting (Virtual), **Jun 2021**
35. *Fast Bayesian GWB Amplitude Estimation Through Parallelized Methods*
NANOGrav Spring Meeting (Virtual), **May 2021**
34. *Mapping The Supermassive Binary Black-Hole Sky With Pulsar Timing Arrays*
AAS Winter Meeting (Virtual), **Jan 2021**
33. *Spatiotemporal Inference Strategies In The Quest For Gravitational Wave Detection With PTAs*
ICERM: Statistical Methods for the Detection, Classification, and Inference of Relativistic Objects (via Zoom), Brown University, **Nov 2020**
32. *The First 10 Years Of PTA Nanohertz GW Astronomy*
APS April Meeting (Virtual), **Apr 2020**
31. *Supermassive Black Hole Demographics In The Era Of Multimessenger Pulsar Timing Array Detection*
30th Texas Symposium on Relativistic Astrophysics, Portsmouth, UK, **Dec 2019**
30. *From Bright Binaries To Bumpy Backgrounds: Mapping Realistic Gravitational Wave Skies With PTAs*
NANOGrav Fall Meeting, **Oct 2019**
29. *Constraining the environments & progenitors of binary black holes across the gravitational-wave spectrum*
12th International LISA Symposium, Chicago IL, **Jul 2018**

28. *The first 10 years of nanohertz gravitational-wave astronomy*
International Pulsar Timing Array meeting, Albuquerque NM, **Jun 2018**
27. *Progress updates in the NANOGrav gravitational-wave detection working group*
NANOGrav Spring 2018 meeting, University of Virginia, Charlottesville VA, **Mar 2018**
26. *The First Bayesian Solar-System Ephemeris*
NANOGrav Fall 2017 meeting, Lafayette College, Easton PA, **Nov 2017**
25. *GW constraints in the presence of solar-system ephemeris uncertainties*
International Pulsar Timing Array meeting, Sèvres, France, **Jul 2017**
24. *Solar-system ephemeris uncertainties & GW constraints*
NANOGrav Spring meeting, West Virginia University, Morgantown WV, **Apr 2017**
23. *Modeling solar-system ephemeris uncertainties & the impact on GW constraints*
EPTA meeting, Amsterdam, Netherlands, **Apr 2017**
22. *Bayesian model emulation of GW spectra for probes of the final parsec problem with pulsar-timing arrays*
American Astronomical Society meeting, Grapevine TX, USA, **Jan 2017**
21. *Bayesian model emulation of GW spectra for probes of the final parsec problem with pulsar-timing arrays*
American Physical Society April meeting, Washington DC, USA, **Jan 2017**
20. *Optimized gravitational-wave sky mapping with pulsar-timing arrays*
NANOGrav Fall Meeting 2016, NCSA, Urbana-Champaign IL, USA, **Oct 2016**
19. *Carrying the physics of supermassive black-hole binary evolution into pulsar-timing array searches*
EPTA meeting, Bielefeld, Germany, **May 2016**
18. *Are we there yet? Time to detection of nanohertz gravitational waves*
American Physical Society meeting, Salt Lake City UT, USA, **Apr 2016**
17. *Carrying the physics of supermassive black-hole binary evolution into pulsar-timing array searches*
NANOGrav meeting, Caltech, Pasadena CA, USA, **Mar 2016**
16. *Are we there yet? Time to detection of nanohertz gravitational waves*
NANOGrav meeting, McGill University, Montreal, Canada, **Oct 2015**
15. *Eccentric supermassive black-hole binary signals in pulsar-timing data*
European Pulsar Timing Array meeting, Bonn, Germany, **Jun 2015**
14. *Eccentric supermassive black-hole binary signals in pulsar-timing data*
American Physical Society meeting, Baltimore MD, USA, **Apr 2015**
13. *Eccentric supermassive black-hole binary signals in pulsar-timing data*
NANOGrav meeting, Arecibo, Puerto Rico, **Feb 2015**
12. *Exploring the cosmos with gravitational waves*
American Astronomical Society meeting, Seattle WA, USA, **Jan 2015**
11. *EPTA constraints on gravitational-wave anisotropy*
European Pulsar Timing Array meeting, Cambridge, UK, **Nov 2014**
10. *EPTA and IPTA searches for gravitational-wave background anisotropy*
International Pulsar Timing Array meeting, Banff, Canada, **Jun 2014**
9. *EPTA limits on gravitational-wave anisotropy*
European Pulsar Timing Array meeting, Astron, Netherlands, **May 2014**
8. *The pulsar-term in PTA continuous-wave searches: a blessing and a curse*
European Pulsar Timing Array meeting, Pula, Sardinia, **Oct 2013**
7. *Probing anisotropy of the GW background with pulsar timing arrays*
20th International Conference on GR and Gravitation, 10th Amaldi Conference on GWs, Warsaw, **Jul 2013**
6. *The first PTA search pipeline for anisotropy in the GW background*
International Pulsar Timing Array meeting, Krabi, Thailand, **Jun 2013**
5. *Searching For Anisotropic Gravitational-wave Backgrounds Using Pulsar Timing Arrays*
European Pulsar Timing Array meeting, l'Observatoire de Paris, Paris, France, **Apr 2013**
4. *Weighing the evidence for a gravitational-wave background*

- Institute of Astronomy seminar, University of Cambridge, UK, **Feb 2013**
3. *Weighing the evidence for a gravitational-wave background*
European Pulsar Timing Array meeting, Albert Einstein Institute (AEI), Potsdam, Germany, **Nov 2012**
 2. *Milestones in Spacetime: Double Neutron-Star Binaries as Gravitational-Wave Standard Sirens*
Institute of Astronomy seminar, University of Cambridge, UK, **Jun 2012**
 1. *Hubble without the Hubble: Cosmology using advanced gravitational-wave detectors alone*
Gravitational-Wave Meeting, Institut de Ciències de l'Espai, Barcelona, Spain, **Feb 2012**

Posters.....

5. *The NANOGrav 11-year Dataset: Pulsar Timing Constraints On The Stochastic GW Background*
American Astronomical Society Meeting, Seattle WA, **Jan 2019**
4. *The Black Hole Zoo: Populations, Pathways, & Origins*
Gravitational Wave Physics & Astronomy Meeting, Washington DC, **Dec 2018**
3. *Galactic environment effects on gravitational wave signals in pulsar timing arrays*
Postdoc Research Day, NASA Jet Propulsion Laboratory, **Aug 2015**
2. *Cosmology without EM counterparts: Standard sirens in the advanced era and beyond*
Rattle and Shine, KITP Santa Barbara, USA, **Aug 2012**
1. *Cosmology using advanced gravitational-wave detectors alone*
Graduate Student Conference 2011, Cavendish Laboratory, University of Cambridge, UK, **Dec 2011**