NANOGRAV FALL 2024 STUDENT WORKSHOP University of Michigan, Ann Arbor, MI

 $\begin{array}{l} OCTOBER \ 5^{\mathrm{th}}-6^{\mathrm{th}} \\ \text{Schedule updated: October 2^{nd}, 2024} \end{array}$

Main Location: Literature Science & Arts Building (LSA Building), Room 1280 500 State Street, Ann Arbor, MI 48109

Saturday, October 5th

9:00 – 10:30	Session A: Welcome and Introduction Speaker: Michael Lam and Adam Brazier Activity Breakout: Introduction to Python or Introduction to Statistics for Pulsar Timing Arrays
10:30 - 11:00	Coffee Break
11:00 – 12:30	Session B: Pulsar Timing Speaker: Michael Lam Activity Breakout: An Introduction to PINT
12:30 - 2:00	Lunch
2:00 - 3:30	Session C: Noise Budget Speaker: Michael Lam Activity Breakout: Understanding Chromatic Effects
3:30 - 4:00	Coffee Break
4:00 - 5:30	Session D: Pulsar Timing + Noise Budget Speaker: Michael Lam Activity Breakout: Practical Timing and Noise Modeling in PINT and enterprise

9:00 - 10:30	Session E: Gravitational Wave Detection Speakers: Gabe Freedman and Shashwat Sardesai Activity Breakout: Bayesian Statistics, MCMC, & GW Searches with enterprise
10:30 – 11:00	Coffee Break
2:00 - 3:30	Session F: Detection/Astrophysics Activity Speakers: Gabe Freedman, Shashwat Sardesai Activity Breakout: Frequentist Statistics & Constructing a Gravitational Wave Background with holodeck
12:30 – 2:00	Lunch
11:00 – 12:30	Session G: Gravitational Wave Astrophysics Speakers: Polina Petrov Activity Breakout: Individual Supermassive Black Hole Binaries and Continuous Gravitational Waves
3:30 - 4:00	Coffee Break

4:00 – 5:30 Session H: CV / Resume Workshop

NANOGrav is very grateful to the University of Michigan's Department of Astronomy for hosting the NANOGrav Fall 2024 Collaboration Meeting's Student Workshop. We also extend our gratuity to those who have dedicated their time towards making this workshop possible, including: Michael Lam (SWOC Chair), Adam Brazier, Fronefield Crawford, Tim Dolch (SOC Chair), Gabe Freeman, Joe Glaser, Kayhan Gultekin (LOC Chair), Polina Petrov, Sashwat Sardesai, David Wright, and Olivia Young.