

Abstract Submitted  
for the APR20 Meeting of  
The American Physical Society

**Education and Public Outreach in the North American Nanohertz Observatory for Gravitational Waves Physics Frontiers Center**<sup>1</sup> TIMOTHY DOLCH, Hillsdale College, FRONEFIELD CRAWFORD, Franklin and Marshall College, JOEY KEY, Univeristy of Washington, Bothell, MAURA MCLAUGHLIN, West Virginia University, JOSEPH SWIGGUM, Lafayette College, KATHRYN WILLIAMSON, West Virginia University, NANOGrav COLLABORATION — Gravitational wave astrophysics, an interdisciplinary field across many continents, requires a diverse community of researchers and students. The North American Nanohertz Observatory for Gravitational Waves (NANOGrav) NSF Physics Frontiers Center enables such a community through student involvement at all levels in low-frequency gravitational wave astrophysics with pulsar timing arrays. From outreach to interested members of the public to undergraduate student training, we build a broad foundation that continues to mentor NANOGrav members at all career stages, all the while establishing collaboration policies that ensure broad participation. We discuss our collaboration's education and public outreach as a case study for other distributed collaborations, as outlined in NANOGrav's Astro2020 State of the Profession White Paper.

<sup>1</sup>The NANOGrav Physics Frontiers Center is supported by NSF award number 1430284.

Timothy Dolch  
Hillsdale College

Date submitted: 10 Jan 2020

Electronic form version 1.4