

Dr. Nathaniel Frissell, W2NAF

Dr. Nathaniel Frissell is a Space Physicist and Electrical Engineer. Dr. Frissell has a passion for radio science and remote sensing of the ionosphere. He was introduced to space physics and space weather in middle and high school through the hobby of amateur (ham) radio, where he was fascinated by long-distance radio propagation and the variability imposed on it by the geospace system. In addition to leading him to pursue a Ph.D. in this field, it enabled him to found and lead the Ham radio Science Citizen Investigation (HamSCI, hamsci.org), a citizen science collective that aims to bring together the professional research and the amateur radio communities. This has led to the Solar Eclipse QSO Party, a nationwide ham radio experiment to study the August 21, 2017 Total Solar Eclipse (hamsci.org/seqp), and an ongoing collaboration with the amateur radio electrical engineering organization TAPR (tapr.org) to develop a Personal Space Weather Station (hamsci.org/swstation). For his efforts, the amateur radio community has awarded him the prestigious 2017 Yasme Foundation Excellence award and the 2019 Dayton Amateur Radio Association Amateur of the Year Award.

In addition, Dr. Frissell has a long-time passion for teaching and education. He earned his B.S. in Physics and Music Education from Montclair State University (2007). He voluntarily coordinated and taught amateur radio license classes and radio and astronomy merit badge classes. An Eagle Scout and Vigil Honor Member, Dr. Frissell taught science and technology for six summers at Forestburg Scout Reservation in New York, and taught amateur radio with the K2BSA group at multiple Boy Scout National Scout Jamborees.