

- 2018-2021 *Improved Characterization of Internal Decadal-Multidecadal Climate Variability Using Paleoclimate Archives, Observational Climate Data and Model Simulations*, NSF-Paleoclimate Program (Award #1748097) [Principal Investigators: M.E. Mann (Penn State Univ.), B. Steinman (Univ. of Minnesota-Duluth)] PSU award (M.E. Mann): \$474,083
- 2016-2019 *The Power of Many: Ensemble Toolkit for Earth Sciences*, NSF- ICER (“EarthCube”) Program (Award #1639707) [Principal Investigators: S. Jha (Rutgers Univ), G. Cervone (Penn State Univ.), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann and G. Cervone): \$391,000
- 2015-2018 *Quantitative Reconstruction of Past Drought Patterns in Western North America Using Lakes, Stable Isotopes, and Modeling*, NSF-P2C2 Program (Award #1446329) [Principal Investigators: B. Steinman (Univ. of Minnesota-Duluth), M. Abbott (Univ. of Pittsburgh), M.E. Mann (Penn State Univ.)] PSU award (M.E. Mann): \$145,002
- 2012-2017 *WSC-Category 2 Collaborative: Robust decision-making for South Florida water resources by ecosystem service valuation, hydro-economic optimization, and conflict resolution modeling*, NSF-Water Sustainability & Climate Program (Award #1204666) [Multi-institution award (Univ. of Central Florida/Univ. of Florida/Univ. of Hawaii/Michigan Tech. Univ/Univ. South Florida/Univ. of Miami/Univ. of Penn/Penn State Univ). Principal Investigator (Penn State Univ): J.D. Fuentes; Co-Investigator (Penn State Univ.): M.E. Mann] PSU award (J.D. Fuentes/M.E. Mann): \$300,514