

BAYLOR FOX-KEMPER PROJECTS

BROWN UNIVERSITY PROFESSOR OF EARTH, ENVIRONMENTAL, AND PLANETARY SCIENCES

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ACTIVE AWARDED GRANTS

- 05/01/26–
4/30/27 **Brown Phase 2 2026 Division of Research Seed Track 2:** Research Innovation Award (RIA). K. Breuer, J. Marston, B. Fox-Kemper: *Dynamics of Offshore Wind Turbines*, \$100k.
- 07/15/25–
6/30/29 **NSF E-RISE:** OIA-2438542. D. Roxbury (URI), B. Fox-Kemper, S. K. O'Shea (RWU), V. Craver (URI), A. Maia (RIC): *E-RISE RII: Socio-ecological Impact of Microplastics in Coastal Ecosystems (SIMCoast)*, \$7M, \$999k to Brown.
- 07/01/24–
6/30/28 **NSF E-CORE:** NSF OIA-2435071. E. Torell (URI), B. Jenkins (URI), J. Pipher, J. Bissonnette (RISD), A. Maia (RIC), J. Lemire (RWU), (Senior Personnel: Fox-Kemper): *E-CORE RII: Rhode Island Network for Excellence in Science and Technology (RI-NEST)*, \$8M, \$710k to Brown.
- 09/01/24–
8/31/27 **NSF Collaborations in Artificial Intelligence and Geosciences:** NSF RISE-2425380. S. Bach, B. Fox-Kemper, A. Creamer: *CAIG: Navigating the Climate Science Deluge: Training Language Models to Assist in Comprehensive Assessments*, \$661k.
- 04/01/25–
03/21/27 **RI STAC:** Rhode Island Science and Technology Advisory Council. B. Fox-Kemper and N. Pizzo: *Air-Sea Interactions Guide Offshore Wind Farm Ecosystem Impacts*, \$80k.
- 09/01/24–
08/31/27 **Brown Provost Initiative Funding:** ECF. B. Fox-Kemper, E. Fussell (Faculty Co-Chairs); Kim Cobb, Ashish Jha, Wendy Schiller, Tejal Desai (Core Partner Directors): *Equitable Climate Futures*, \$700k.
- 09/01/23–
8/31/27 **NSF EPSCoR:** NSF OIA-2316271. E. Di Lorenzo, J. Pringle (UNH), A. Maia (RIC), A. Becker (URI), D. Reidmuller (GoMRI), (Senior Personnel: Fox-Kemper): *RII Track-2 FEC: Community-Driven Coastal Climate Research & Solutions (3CRS) for the Resilience of New England Coastal Populations*, \$6M to Brown.
- 09/01/23–
8/31/26 **DoE EPSCoR Implementation Grant:** DoE DE-SC0024572. G. Chini, C. White, M. Wosnik, N. Laxague, J. B. Marston, B. Fox-Kemper, J. Oishi: *Multiscale Modeling and Direct Statistical Simulation of Marine Atmospheric Boundary Layer Turbulence for Offshore Wind Energy*, \$3M, \$850k to Brown.
- 07/15/25–
7/14/26 **RWU/US EPA:** OIA-2438542. B. Fox-Kemper, M. Freilich: *Analysis and Curation of Spatial Dissolved Oxygen*, \$47k to Brown.
- 07/01/22–
6/30/26 **NSF Physical Oceanography:** NSF 2220280. B. Fox-Kemper (Brown), J. Lilly (PSI): *Collaborative Research: A Coordinate-Free Framework for Improving Eddy Parameterizations*, \$438k to Brown.
- 05/01/22–
04/30/26 **NSF Physical Oceanography:** NSF 2149041. J. Wenegrat (UMD), B. Fox-Kemper (Brown), Jay Brett (JHU/APL): *Collaborative Research: Tracing the Physics of Submesoscale Entrainment and Subduction*, \$474k to Brown.

SERVICE TO THE PROFESSION AND COMMUNITY

- 2023–
Co-Chair: World Climate Research Program (WCRP), [Earth System Modelling and Observations \(ESMO\) Core Project](#). *Coordinate, advance, and facilitate all modelling, data assimilation and observational activities within WCRP, working jointly with all other WCRP projects and providing strategic connections to related external programs..*
- 2024–
Member: [Energy Exascale Earth System Model \(E3SM\) Advisory Committee](#), US Department of Energy (DOE), Office of Biological and Environmental Research (BER). *Participate in project review and discussions, recommend improvements.*
- 2021–
Member: Nucleus for European Modelling of the Ocean (NEMO), [Scientific Advisory Committee \(SAC\)](#). *Provide feedback on Science and Development Strategies, etc.*
- 2021–
Member: [Narragansett Bay Estuary Program \(NBEP\)](#), Science Advisory Committee. *NBEP's mission is to ensure clean water and habitat for all who live, work, and play in the Narragansett Bay region.*

Last updated May 8, 2026. For a more recent and complete (including concluded projects) version, go to [\(link\)](#).