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Dr. Gentemann is a Senior Scientist at Earth and Space Research, a nonprofit research institute located in Seattle, Washington, an Affiliate at the University of Washington Applied Physics Laboratory, Co-Chair of the National Academies of Sciences, Engineering, and Medicine (NASEM) Standing Committee on Earth Science and Applications from Space (CESAS), and acting Chair of NOAA's Science Advisory Board's Data Archive and Access Requirements Working Group. Her more recent research focuses on interdisciplinary science using cloud computing, open source software development, machine learning for applications and algorithm development using remote sensing data, air-sea interactions, and upper ocean physical processes. She has worked on the calibration, radiative transfer modeling, algorithm development, validation, and operational near-real-time distribution of multiple satellite passive microwave sensor data.

She received a B.S. from Massachusetts Institute of Technology, an M.S. in Physical Oceanography from Scripps Institution of Oceanography, and a Ph.D. in Meteorology and Physical Oceanography from the University of Miami. She has served on many national and international science teams, working groups, and committees for NASA, NOAA, AGU, JAXA, and the National Academies of Sciences, Medicine, and Engineering (NASEM). In 2013, she received the American Geophysical Union Charles S. Falkenberg Award, for a "scientist under 45 years of age who has contributed to the quality of life, economic opportunities, and stewardship of the planet through the use of Earth science information and to the public awareness of the importance of understanding our planet." In 2008, she was the principal investigator of the Multi-sensor Improved Sea Surface Temperature (MISST) Project that received the National Oceanographic Partnership Program Excellence in Partnering Award. In 2001, she was part of the Satellite Ocean Atlas Team that was awarded the NASA Group Achievement Award for outstanding achievement in the utilization of multiple observations from space for the study of the global oceans.

She has led 4 large academic, governmental, commercial partnerships, coordinating with over 20 scientists on each project, served on and chaired numerous international and national science teams, working groups, and committees. She currently has 43 papers published and is a member of the American Geophysical Union (AGU), American Meteorological Society (AMS), and IEEE Geoscience and Remote Sensing Society.