

**Brenda Rubenstein**  
Associate Professor of Chemistry and Physics  
Director of the Data Science Institute  
Brown University

**Biography:**

Dr. Brenda Rubenstein is currently an Associate Professor of Chemistry and Physics at Brown University. She will be named the Kriebel Professor of Chemistry, Professor of Physics, and Director of Data Science on July 1, 2025. Her research foci include: 1) quantum mechanics, including electronic structure theory and quantum computation; 2) alternative computation, including molecular and biological computation; and 3) biophysics, including AI- and quantum-based methods for understanding protein dynamics and catalysis. Prior to arriving at Brown, she was a Lawrence Distinguished Postdoctoral Fellow at Lawrence Livermore National Laboratory. She received her Sc.B.s in Chemical Physics and Applied Mathematics at Brown University, her M.Phil. in Computational Chemistry while a Churchill Scholar at the University of Cambridge, and her Ph.D. in Chemical Physics while a DOE Computational Science Graduate Fellow and NSF Graduate Research Fellow at Columbia University. Her research and research group have been honored with the Camille Dreyfus Teacher-Scholar Award, the Cottrell Teacher-Scholar Award, the Sloan Research Fellowship, and the Air Force Office of Scientific Research Young Investigator Award. She has been selected to serve on the US Defense Science Study Group (DSSG) and named to Scientific American's Brilliant 10 list and Popular Science's Talented 12 list.

