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Dr. Kielman worked for the American Society for Testing and Materials, MCI Communications, and the Department of Health and Human Services prior to joining the FBI. He currently serves on the Advisory Committees for the National Security Directorate, the Environmental Biomarkers Initiative, and the Data-Intensive Computing Initiative for the Department of Energy's Pacific Northwest National Laboratory (PNNL), and is Co-Chair for the White House National Science and Technology Council's Subcommittee on Social, Behavioral, and Economic Sciences. He also recently served as chair of the Homeland Security Initiative Advisory Committee for PNNL.

Dr. Kielman has an undergraduate degree in Physics and a graduate degree in Biophysics. His postdoctoral research was focused on genetics. He is the recipient of a 2006 Presidential Rank Award.