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Dr. David Maniaci is a Senior Member of the Technical Staff at Sandia National Laboratories and is the Rotor Blade and Wind Plant Aerodynamics Lead in the Wind Energy Technologies Department. His current research includes the verification and validation of models that capture wind turbine wake dynamics, studying the effects of leading-edge erosion and soiling on airfoil and rotor performance, and the functional scaling and design of rotor blades. He received a Ph.D. in Aerospace Engineering from the Pennsylvania State University, where he was an instructor of aircraft design for several years and performed research in applied aerodynamics, wind tunnel testing, and wind turbine aerodynamics.