



DR. ASHLEY MOORE WILLIAMS

Dr. Ashley Moore Williams leads a modeling and simulation group for a research and development (R&D) project at Apple. In this role, her team focuses on the development of engineering software tools and analysis to provide insight for developing technologies and to influence technical and operational decisions. Previously, she worked in a number of roles at The Aerospace Corporation, most recently serving as director of the Studies and Analyses Office. In that role, her team performed analyses to understand and improve resiliency of the space enterprise. She began her career with an internship at NASA's Jet Propulsion Laboratory. An analyst at her core, she focuses on modeling, simulation, data visualization, and systems engineering.

Raised in Colorado, Dr. Williams studied Aerospace Engineering and Applied Mathematics at the University of Colorado at Boulder, earning bachelor's degrees in both subjects in 2006. Next, she attended the California Institute of Technology, earning a master's degree in Aerospace Engineering in 2007 and a Ph.D. in Control and Dynamical Systems in 2011. Her thesis focused on the optimization of spacecraft trajectories using invariant manifolds of the three-body problem.

Passionate about the development of future engineers, she enjoys mentoring and participating in STEM events. At The Aerospace Corporation, Dr. Williams was very involved with the intern program, developing events to inspire, challenge, and build community. She also loves teaching, and previously taught a MATLAB programming course at the University of Southern California and Orbital Mechanics at California State University Long Beach.

When not working, she loves to travel, attend musicals, and spend time with her family and pets.