

USGS Maryland-Delaware-District of Columbia Water Science Center

Thursday, September 5th, 2019 10:00 a.m.

Artificial Intelligence Applications at the USGS

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The presentation will begin with a brief overview of AI history, current AI research areas, enterprise AI application categories, the benefits of AI and a framework of building up AI capabilities for organizations. Then it will dive into a more detailed discussion of potential AI applications, particularly around process automation, prediction and insight discovery, in the context of the Water Science Center's mission, current tasks and vision statements. The presentation concludes with a strategy recommendation of choosing AI projects within an organization.



Dr. Hong Jiang obtained a B.S. in Statistics, and a Ph.D. in Cognitive Psychology with a focus on Decision Making and Mathematical Statistics from the University of Maryland (UMD) at College Park in 2005. As a research assistant at the graduate school, she modeled human decision-making under uncertainty using statistical models and neural network algorithms. Hong was a research assistant professor at UMD in 2006 when she investigated human decision processes and associated brain activities at the National Institute of Health (NIH) Brain Imaging group. Shortly after the academic endeavor, she started her consulting career at large technology and management consulting firms, such as IBM, Deloitte and KPMG where she led advanced analytics, big data, business intelligence and information management projects and firm initiatives. The functional areas range from risk management, program integrity, agency policy research, program evaluation to workforce development analysis. In addition, Hong did research and published papers that supported agency policies at the prestigious peer review journals. She has worked for Federal Agencies, such as NIH, CMS, VA and HUD, for the past 15 years.

This presentation will also be available remotely via Webinar

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