



Dr. Will Dupree, Aptima, Inc.'s Intelligent Performance Analytics Division Deputy Division Lead.

Dr. Will Dupree serves as Aptima, Inc.'s Intelligent Performance Analytics Division Deputy Division Lead, with a focus on technical leadership in data science and AI engineering. He's led and contributed to multiple research efforts for Department of Defense agencies such as the National Geospatial-Intelligence Agency, Air Force, and Army, leveraging his research skills in the domains of machine learning (ML) and artificial intelligence (AI). Dr. Dupree has been the Principal Investigator on multiple SBIR funded efforts focused on improving analytical capabilities through innovative applications of ML/AI. His research interests include developing and evaluating compound AI systems that leverage LLMs and VLMs, knowledge graph-based systems, causal machine learning, and deep learning for time series analysis. Dr. Dupree has over 3 years' experience in leading cross-functional teams, guiding research from prototype to integration. Currently, he is focused on developing frameworks to assess causal effects and counterfactuals in generative AI and building multimodal systems that extract insights from unstructured data sources. He utilizes his background in physics, applied mathematics, and advanced analytics to tackle complex challenges at the intersection of ML and defense applications. His contributions have been recognized with Aptima's Outstanding Initiative Award (2025). Dr. Dupree holds a PhD in Physics from Washington State University and a BS in Physics and Applied Mathematics from Montana State University.