

**SARA SZWAJA**

SENIOR DATA ANALYST
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Sara Szwaja has been a member of the Affiliated Monitors, Inc. data analytics team since 2018. As a Senior Data Analyst, she works on independent monitoring and proactive compliance reviews. Beginning with the objectives of an engagement, Sara works closely with a company's IT teams to understand their data systems, processes, and controls. Sara then develops testing methodologies to independently analyze a company's data, including utilizing random sampling and full population testing to confirm that a company's data is complete, accurate, and valid and to identify patterns of irregularities or systemic weaknesses. Her data analysis results have helped companies identify areas of risk or process improvements and informed business decisions. Her data analysis work is scalable, replicable, and effective. In some cases, companies have chosen to incorporate aspects of her data analysis methodologies into their own internal measures and monitoring approach.

Sara is experienced in various database platform languages and environments for data processing, statistical computing and graphics including Oracle SQL, Microsoft SQL Server, and R. She is also experienced in working with small and large datasets and is skilled at tailoring data analyses to test specific requirements, gain a better understanding of the data population, and identify the scope of any underlying issues. Additionally, she is accomplished at outlining complex data analysis methodologies and results in a concise and easy-to-understand way for technical and non-technical audiences.

Sara has over 15 years professional experience working in data analytics and other quantitative fields. Prior to joining the AMI staff in 2018, she worked as a Marketing Data Analyst at Virtual DBS in North Kingston, Rhode Island. During this time, she used B2B and B2C datasets to profile clients' customers and develop predictive models to gain insight on marketing data and improve clients' customer response and acquisition. She utilized relational databases containing hundreds of consumer demographic, geographic, and behavioral characteristics to conduct statistical analyses such as customer segmentation analysis and regression modeling.

Before returning to school for her master's degree, Ms. Szwaja was an Actuarial Analyst at Towers Watson where she worked with teams of analysts to perform retirement plan consulting and actuarial services. Sara reviewed pension plan participant data, organized tables, used valuation software to perform calculations, developed sensitivity analyses, and prepared reports.

Sara holds a bachelor's degree in applied mathematics from Boston University and a master's degree in oceanography from the University of Rhode Island. For her master's thesis she analyzed data collected from laboratory and numerical experiments to address outstanding questions in the geosciences. Specifically, she developed data-driven results that provided insights on the dynamics of Earth's interior and compared those results to real-life observations.