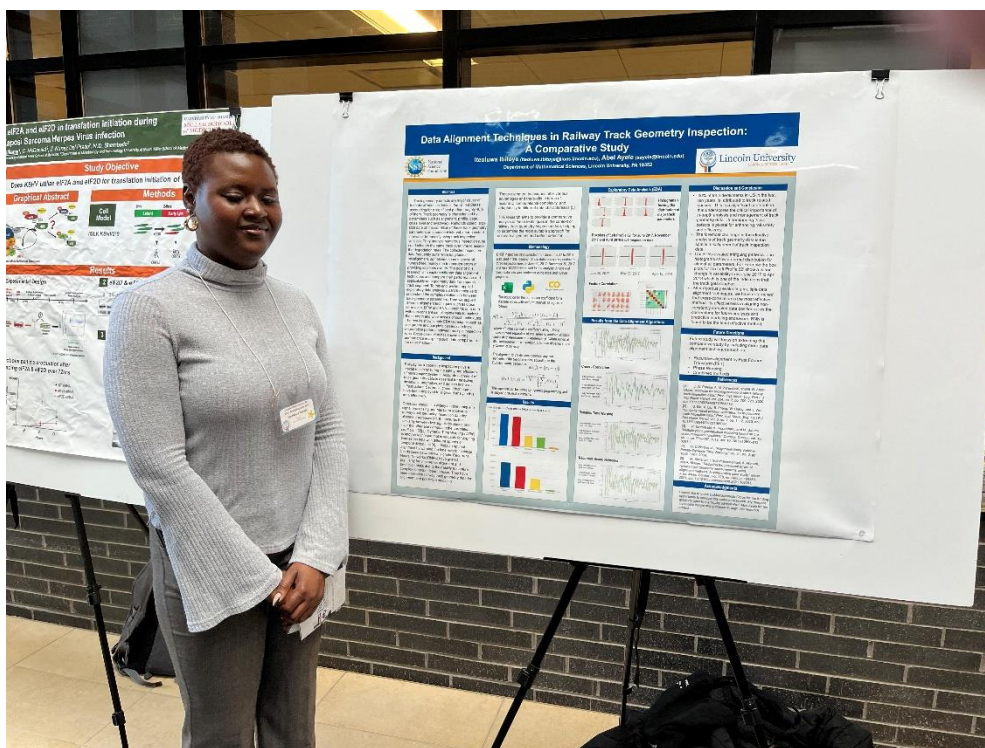


## DMS Student Wins Best Poster Award

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Lincoln University held its 27<sup>th</sup> Annual Science Fair on Friday, November 3<sup>rd</sup>. STEM students from all across campus presented new and exciting research results in poster form. This forum helps inform other members of the Lincoln community about the exciting work our STEM students are doing while providing those same STEM students a chance to practice their presentation skills. To further this second aim, the Science Fair features awards for Best Poster in several different categories of STEM research.

The Department of Mathematical Sciences is proud to announce that Iteoluwa Ibitoye received the Best Poster award in the Physical/Computer and Data Science category. Ms. Ibitoye's research, entitled "Data Alignment Techniques in Railway Track Geometry Inspection: A Comparative Study," analyzed spatially misaligned railway track geometry data from three inspection runs using Recurrent Neural Network (RNN) algorithms, Cross-Correlation, and Dynamic Time Warping (DTW), concluding that Cross-Correlation provided the best performing for this type of data. Her well-organized poster and strong presentation skills provided attendees with clear and engaging communication of her results.



Ms. Ibitoye conducted her research under the supervision of DMS faculty member Abel Ayele last summer. The research was funded by the Delaware and Mid-Atlantic DS Corps grant, an NSF grant obtained in 2021 by a collaboration of faculty from Lincoln University, the University of Delaware, and Delaware State University.