





Stony Brook Athletics Teams with Computer Science to Launch WolfieMetrics

General

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STONY BROOK, N.Y. - Stony Brook Athletics has partnered with the Department of Computer Science to design Wolfiemetrics – an exciting new application that will revolutionize the workouts of Stony Brook student-athletes inside the Dubin Family Student-Athlete Performance center. Designed by four Stony Brook students, Wolfiemetrics will capture and track data that will enable the strength and conditioning staff to maximize the performance of each student-athlete throughout their careers on campus.

"The launch of WolfieMetrics marks a significant achievement in our quest to maximize student-athlete athletic performance," said Director of Athletics [Shawn Heilbron](#). "Our partnership with the Department of Computer Science allowed us to tap in to some of the brightest minds at Stony Brook, and the finished product far exceeded my expectations."



Danielle Ali, Andrew Broden, Edmund Liang and Andy Liang along with Professor Scarlatos created the capture/data visualization application. On the front end, WolfieMetrics features a tablet for recording data such as a student-athlete's height and weight, but also performance data such as speed and strength testing. The user interface allows a coach to find a record for a student-athlete, and then update the record with new data, photos, and video.

On the back end, WolfieMetrics allows a strength and conditioning coach to browse athletes' records on the web and to compare performance data over time. The application is a virtual clipboard and a camera on a tablet out in the field, connected to a database with a web browser to visualize the data back in the office.

"I want to thank Professor Scarlatos, Danielle Ali, Andrew Broden, Edmund Liang and Andy Liang for the time, energy, and detail that they've put into this project," said [George Greene](#), the Assistant Athletics Director for Athletic Performance at Stony Brook. "This application will allow our staff to track, manage, and interpret data more efficiently over an athlete's 4-year career at Stony Brook. With this app we will be able to blend technology and real world application to better develop our athletes and continue to grow our Athletic Performance Department."

The tablet interface can accept a variety of inputs, such as text, speech, and video. The database can export records in common formats such as Excel spreadsheets and comma- and tab-delimited files.

The app will be implemented as pilot with selected teams this summer with full rollout anticipated for the fall.