



***Jared Estevanes***

Dissertation Defense  
College of Criminal Justice  
Department of Forensic Science  
PhD in Forensic Science

## **The Analysis of Intact Explosives and Explosive Residues Using Confocal Raman Microscopy and DART-QTOF**

Research goals include developing efficient analysis schemes for the identification of intact explosives and explosive residues as well as expanding the range of analytes detected in post-blast samples. This project focuses on assessing the benefits and challenges of using ambient ionization, namely DART-QTOF, and confocal Raman microscopy for the detection of intact explosives and explosive residues. These methods aim to supplement the current analytical workflow used when analyzing post-blast debris.

### Event Information

March 21, 2024

9:30 AM CST

Email [forensics@shsu.edu](mailto:forensics@shsu.edu)  
to attend

### Committee Members

Dr. Geraldine Monjardez

Dr. Patrick Buzzini

Dr. J. Tyler Davidson

Dr. Darren Williams



**Sam Houston State University**

**PUBLIC DEFENSE ANNOUNCEMENT**