



UNIVERSITY OF MIAMI  
COLLEGE of  
ARTS & SCIENCES

## Miami Physics Conference 2023

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**Date:** Dec 13-19, 2023  
**Location:** LagoMar Resort  
**Affiliation:** University of Alabama

Sergei Gleyzer

# Machine Learning–based Analysis and Inference of Strong Gravitational Lensing Systems

## Abstract

My talk will present the development and application of state of the art machine learning algorithms to various strong gravitational lensing challenges with the goal of identifying dark matter substructure and measurement of its properties.