

# Evaluating Statistical Methods for Nuclear Forensics Analysis

Preliminary Examination

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# Outline



## 1 Introduction

Motivation

Methodology

## 2 Background

## 3 Demonstration

## 4 Research Proposal

## 5 Conclusion

# Nuclear Security and Forensics



background here of what it is

# Needs in Nuclear Forensics



US/DHS stuff plus NF-specific needs

# Contribution of Computational Methods

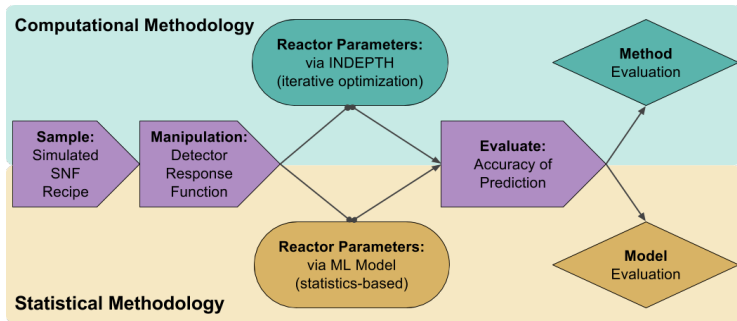


Figure 1: Nuclear forensics research: physical, experimental, and computational



# Computational Methods

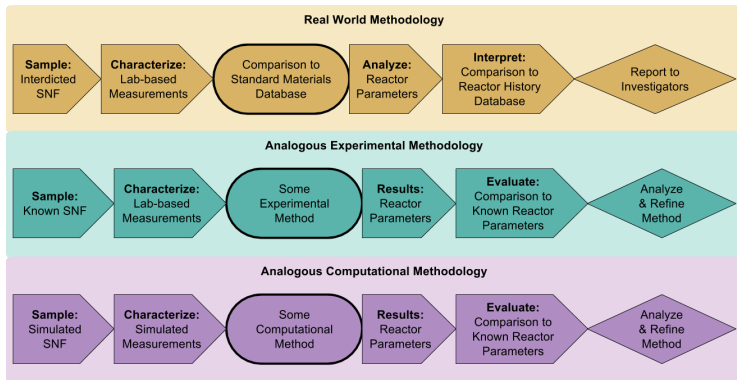


Figure 2: Comparison of computational approaches to nuclear forensics research

# Contribution of Statistical Methods



hi

# Statistical Methods



hi



# Goal/Big Question



How does the ability to determine forensic-relevant spent nuclear fuel attributes using machine learning techniques degrade as less information is available?.



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