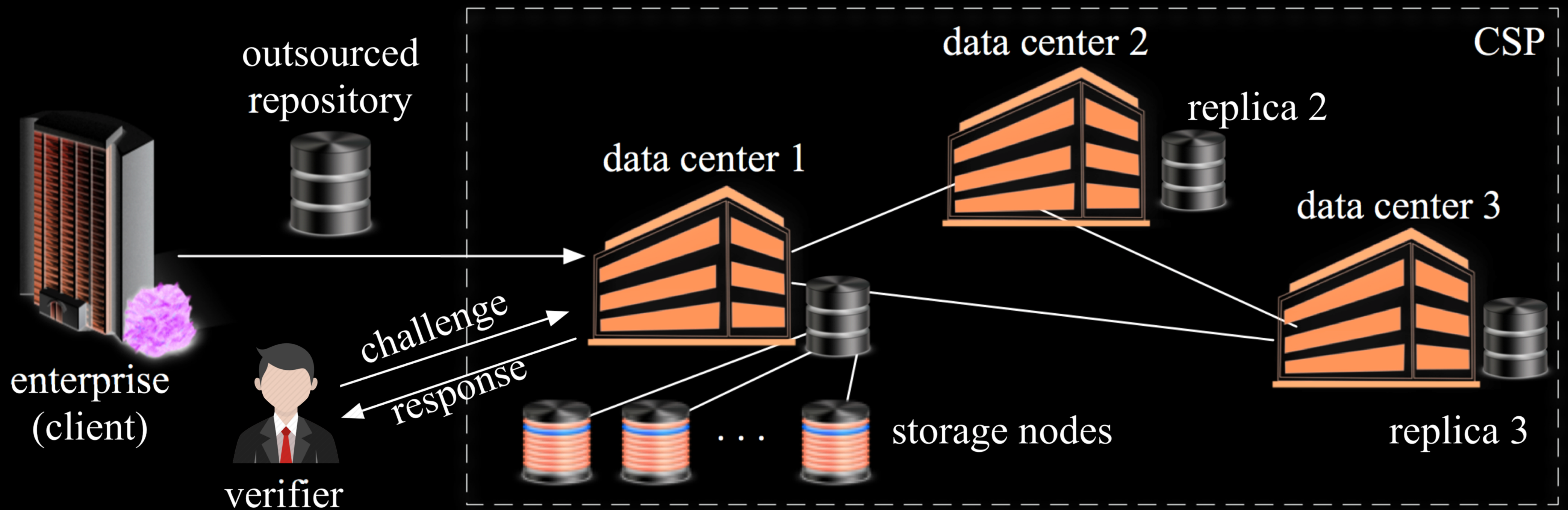
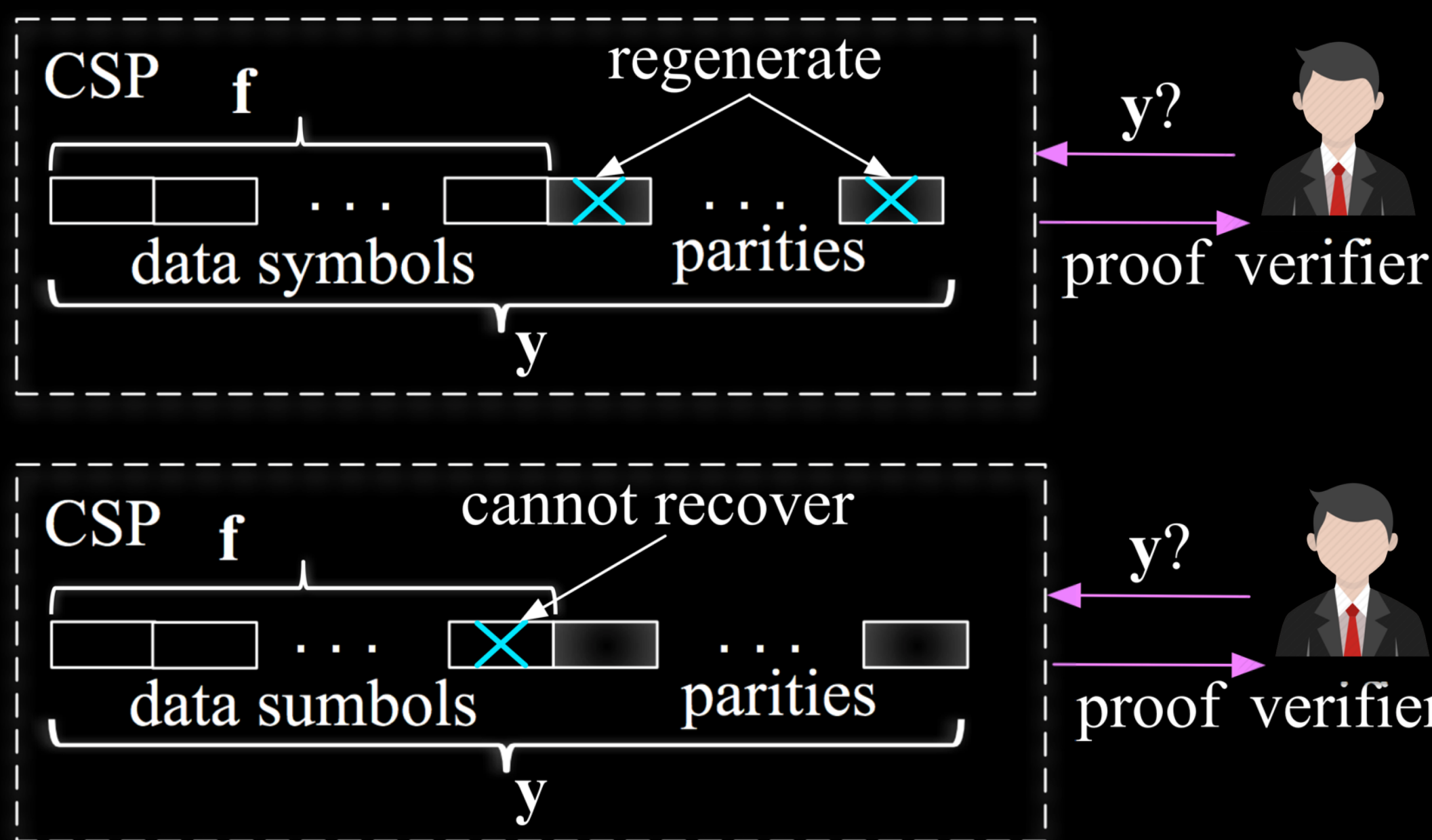


Project Goal: Verify the integrity and reliability of cloud storage in a resource-efficient manner

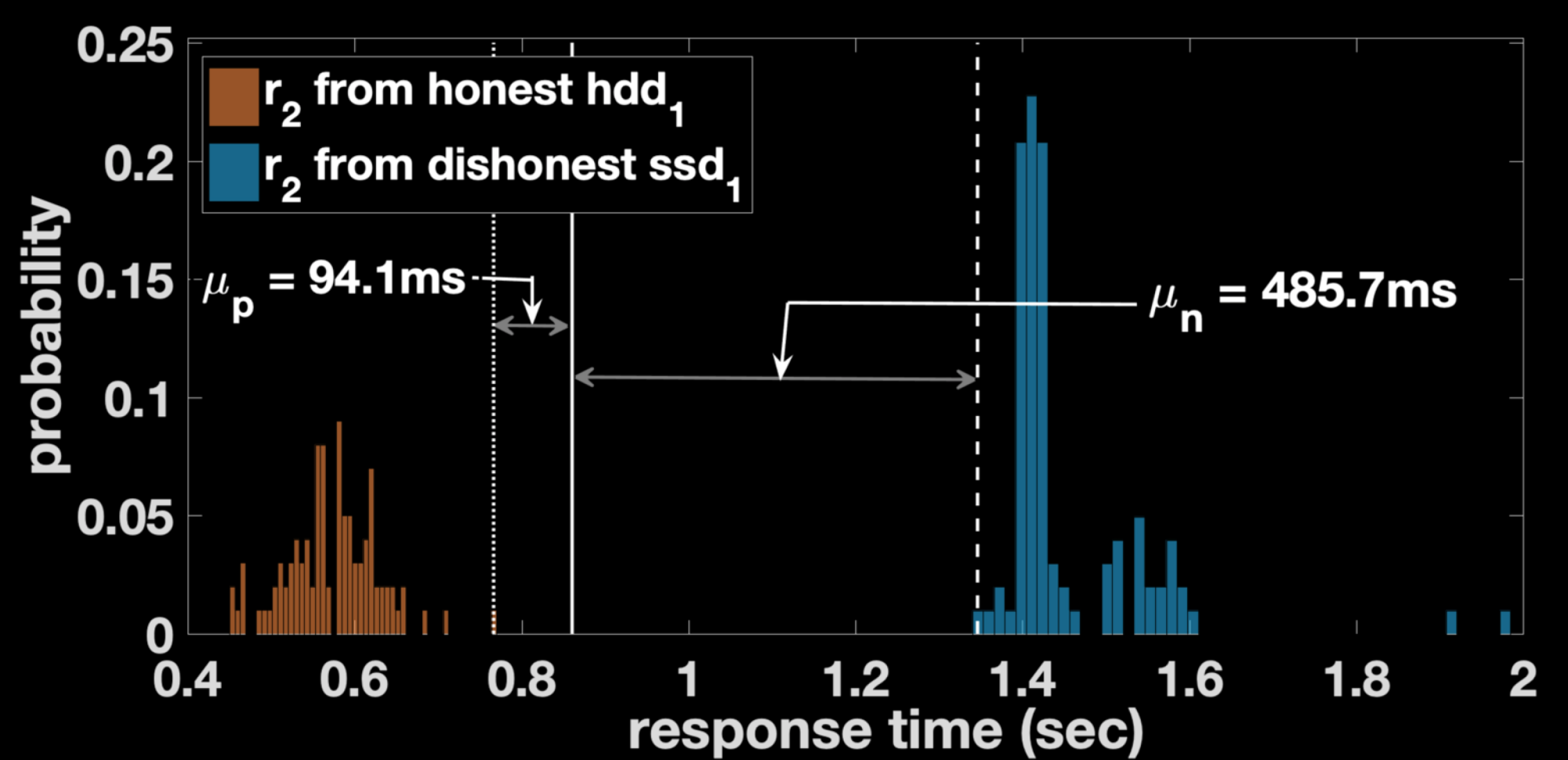
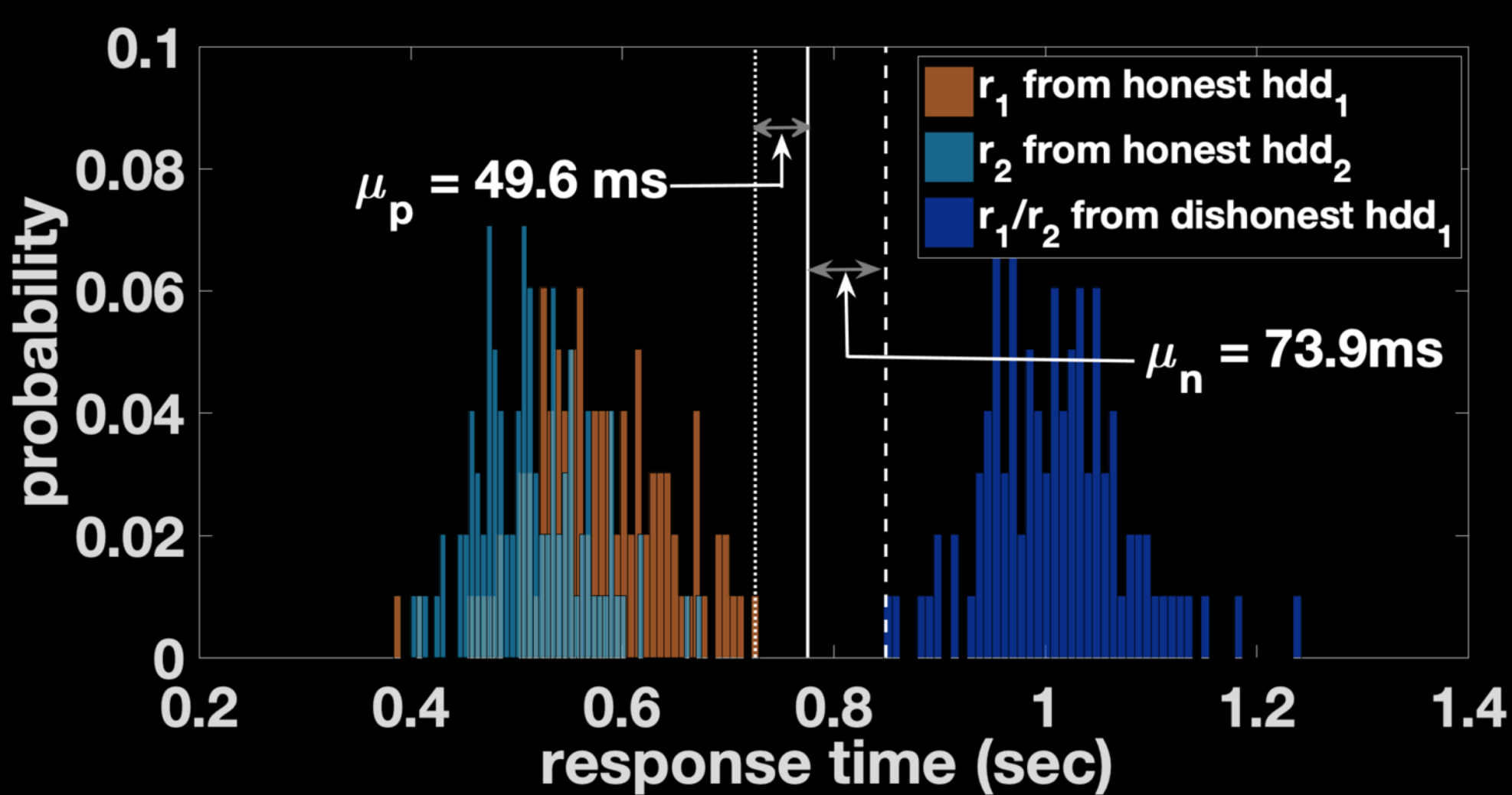
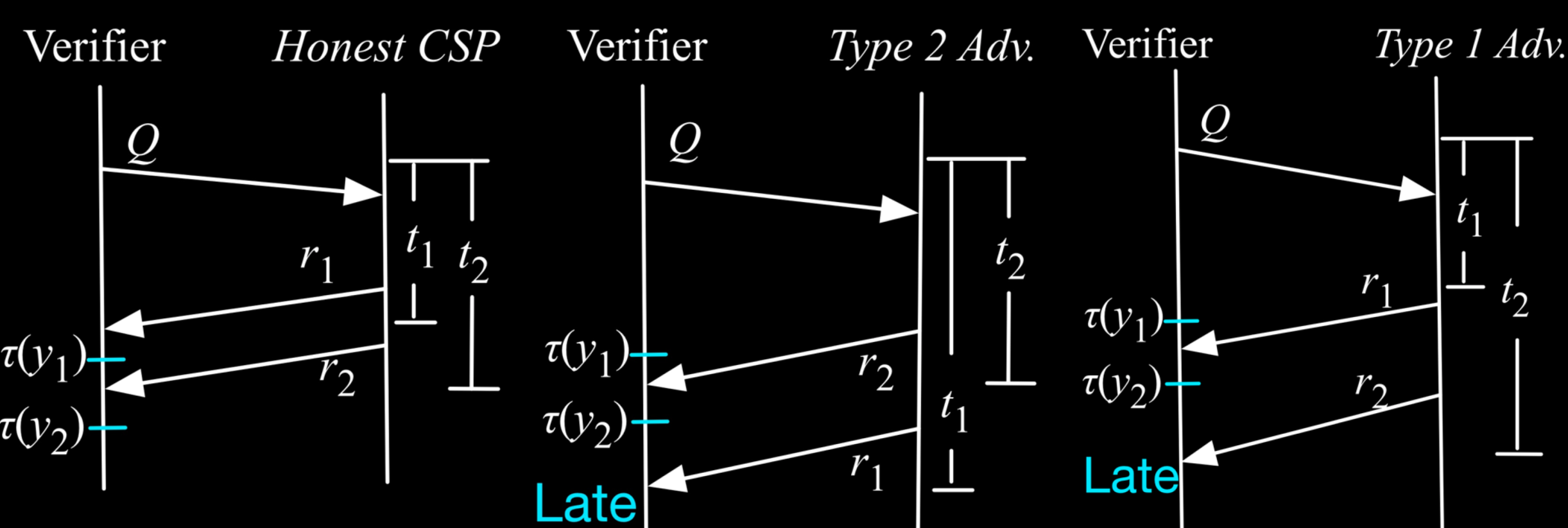
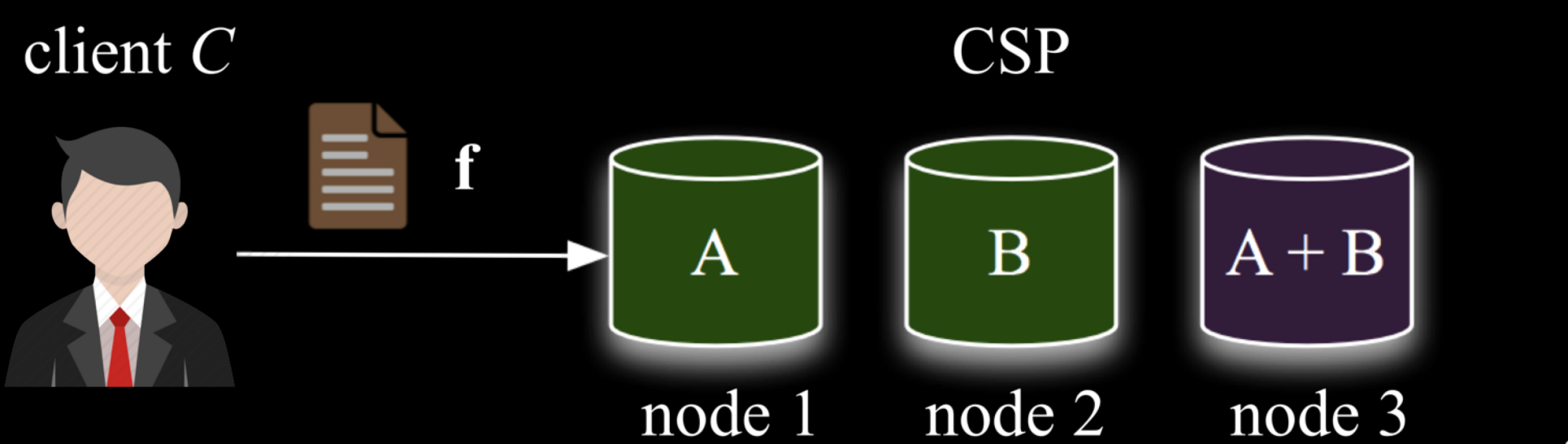


Storage Reliability at the logical level: Ensure data is stored reliably and enable data recovery



- Guarantees of **storage reliability** while enabling efficient **data maintenance**
- Characterization of tradeoffs between **security** and **storage/communication overhead**
- Use of **public ECC** that can be selected by the CSP
- **Privacy-preserving auditing**

Reliability at the physical level: Ensure data is distributed across storage nodes and data centers



Broader Impacts

- The project addresses dire need for accountability, privacy, security, and regulatory compliance for critical infrastructures such as storage
- Currently funds in part two female Ph.D. candidates