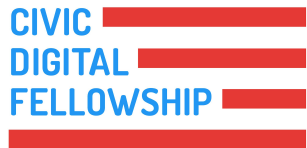


# A Public Disclosure Avoidance Repository

Center for Enterprise Dissemination, Disclosure Avoidance

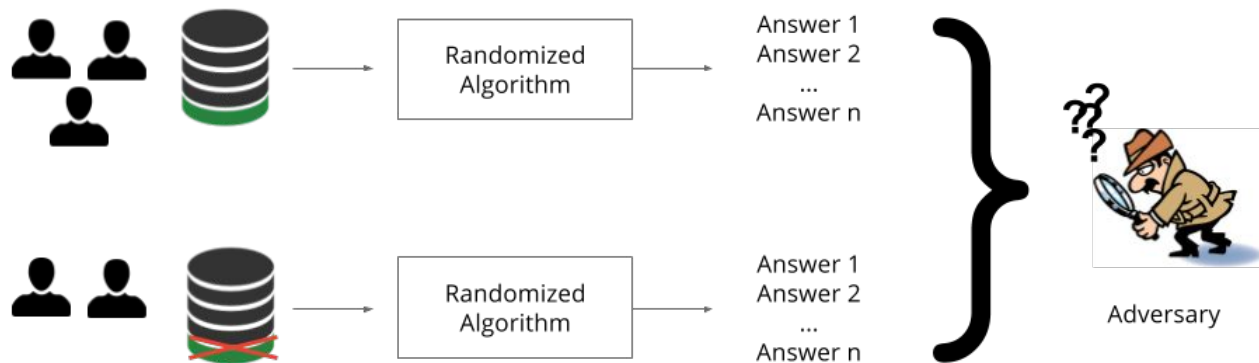
**Mentor:** Rolando Rodríguez, Sr. Research Mathematical Statistician



UMA DESAI  
Olin College of Engineering  
Computing

# Adopting a New Framework for Privacy

- The Census Bureau is required by law to keep its survey responses confidential, and this is becoming an **increasingly difficult** task
- To combat this, we are transitioning from “ad-hoc” privacy techniques towards a formally private framework known as **differential privacy**



# Lack of Expertise in Differential Privacy

- Newest disclosure avoidance policy: Any data release at the sub-state level or lower must be protected with **noise injection** techniques
- Statistical researchers both internal and external to the Census Bureau often **lack experience with formal privacy**, and face a road block if they are interested in publishing sub-state level results
- Our challenge: ***build the tools and documentation to enable Census data users to easily apply privacy techniques to their data releases***



# The Disclosure Avoidance Repository

## Algorithm Library

- Noise injection & error metrics
- Test suite



## Interactive Tutorials

- Jupyter notebooks with code snippets
- Common workflows



## Documentation

- DP core concepts
- DRB guidelines
- Important resources



# Future Growth

Members of our team will continue to grow this project by:

- Presenting our repository at the **FSRDC Annual Conference** in September
- Continuing contributions and improvements to the repository as **DRB guidelines develop** further and **user community expands**



# Special thanks to:

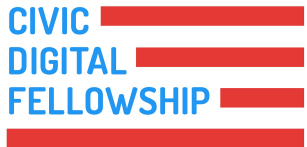
Rolando Rodríguez

Amy Lauger

Caleb Floyd

Michael Freiman

The CIF Team



Check out the repository at:

***<https://github.com/umadesai/census-dp>***