



Online Ethics Center  
FOR ENGINEERING AND SCIENCE

# The Ethics of Data Management

## Author(s)

Xiaofeng Tang  
Eduardo Mendieta  
Thomas Litzinger

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## Description

This [online module](#) synthesizes ethics concepts, case studies, relevant policy, and best practices to assist the teaching and learning of ethical data practice in science and engineering research. Following the lifecycle of research data management, the module is organized in four related units: 1. Planning for Data, 2. Generating Data, 3. Processing Data, 4. Using, Sharing, and Preserving Data. Overall, the module seeks to advance an ecological perspective of data ethics.

## Notes

We thank Elaine Gustus for instructional design support. The Rock Ethics Institute and the Leonhard Center for the Enhancement of Engineering Education at Penn State University sponsored the development of this module.

## Resource Type

Case Study / Scenario  
Instructor Materials

## **Topics**

Animal Use

Bias in Research

Big Data

Conflict of Interest

Controversies

Data Management

Emerging Technologies

Ethics and Society

Human Subjects Research

Intellectual Property and Patents

Privacy and Surveillance

Research and Practice

Research Misconduct

Social Responsibility

## **Discipline(s)**

Engineering

Research Ethics