

OUR Data Stewardship in Applied Science Research Award Rubric

Data Stewardship is the care and management of data throughout the project. It involves being able to identify underlying disciplinary, data management, and ethical principles and articulate trade-offs involved in making decisions throughout the project.

How did you approach decisions related to data throughout your applied science research project?
 What considerations and tradeoffs were involved in your decisions?

Criteria	Mastery Expectations	Score Mastery (7) - Proficient (5) - Developing (3) - Beginning (1)
(1) First-principles (disciplinary & Conceptual) Reasoning	Clearly articulate two or more key disciplinary principles that informed the data collection, management, and preservation for this applied research project. Examples include required data sample size for AI model training; proper methods for data analysis; metadata creation.	___ / 7
(2) Experiential Reasoning	Present examples of applying learning from prior experience, practices, and/or experimental strategies to data care and management.	___ / 7
(3) Ethical Reasoning	Discuss three or more ethical considerations related to data stewardship, storage, backup, sharing, publication, data rights, etc., and how they informed the approach taken.	___ / 7
(4) Challenges and Trade-offs Reasoning	Explain (overall) tradeoffs and challenges throughout the data lifecycle involving data collection and management (e.g., accuracy, consent, IP, ownership, storage, privacy, security), re-use of data, permission rights, etc.	___ / 7
(5) Futures Reasoning	Predict how responsible and ethical management of data would impact the societal benefits of the project. This can include discussing how the potential applications and uses could result in benefits or harms in the future.	___ / 7
(6) Reasoning Fluency	Demonstrate reasoning fluency across five aspects of reasoning outlined above.	___ / 7
Overall Data Stewardship	Overall evidence of care and management of the data throughout the project.	___ / 42

Comments: