

### What is Data Citation?

“The practice of providing a reference to data in the same way as researchers routinely provide a bibliographic reference to printed resources.”

“A key practice underpinning the recognition of data as a primary research output rather than as a by-product of research.”

— Australian National Data Service

### What is a persistent identifier?

A unique web-compatible alphanumeric code that points to a resource to be preserved for the future.

#### EXAMPLES

**DOI: Digital Object Identifier**

**ARK: Archival Resource Key**

**UUID: Universally Unique Identifier**

**ORCID: Open Researcher & Contributor ID**

### A few of the benefits of data citation

- Facilitates discovery of links between data and publications, making it easier to validate and build upon previous work
- Ensures proper credit is given when others use your data
- Makes it possible to estimate dataset impact based on the number of citations
- Links datasets to related methodology in articles
- Makes it easier to discover existing data relevant to a particular research question

### Data Citation Principles

- |                         |                     |
|-------------------------|---------------------|
| • Importance            | • Persistence       |
| • Credit & Attribution  | • Specificity/      |
| • Evidence              | Verifiability       |
| • Unique Identification | • Interoperability/ |
| • Access                | Flexibility         |

<https://www.force11.org/datacitation>

### Collaborating to support data citation requires the participation of lots of people

Data authors	Data users
Data managers	Data publishers
Journal publishers	Data repositories
Professional orgs	

### How to cite data -- what to include

- |                      |                         |
|----------------------|-------------------------|
| • Author/PI/creator  | • Archive/distributor   |
| • Release/pub. date  | • Access date & time    |
| • Title              | • Subset of data used   |
| • Unique identifier  | • Editor/contributor    |
| • Version number     | • Publication place     |
| • Data format        | • Data w/in larger work |
| • 3rd party producer |                         |

### Example data citation formats

#### DataCite:

Creator (Publication Year): Title. Publisher. Identifier

#### Dryad:

Author (Date of Article Publication) Data from: article name. Dryad Digital Repository. doi: DOI number.

### How to get a DOI for your data

Contact a DataCite-registered organization or institution that can create DOIs, such as:

- DataCite Canada
- California Digital Library’s EZID service
- Australian National Data Service (ANDS) Cite My Data Service

Create a citation profile that includes metadata like:

- |           |             |
|-----------|-------------|
| • Creator | • Publisher |
| • Title   | • Date      |



### Best practices to support data citation

- Use applications that support metadata creation
- Use standardized keywords
- Use persistent identifiers
- Work with publishers and repositories to archive data during the publication process
- Encourage others to cite data and make their own data available for reuse

### Local contact information