DataCite Implementations at the University of Massachusetts: Presentation for the DataCite General Assembly

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DataCite Implementations at the University of Massachusetts

Presentation for DataCite General Assembly
April 1, 2019
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Erin Jerome, Libraries, UMass Amherst
Christian Haselgrove, CANDI, UMass Medical School
Lisa Palmer, Lamar Soutter Library, UMass Medical School
5 campuses, 3 groups on two of the campuses currently using DataCite

- UMass Amherst Libraries
- UMass Medical School Library
- CANDI (Child and Adolescent NeuroDevelopment Initiative), based at UMass Medical School

Joined DataCite: March 2018 (migrated from EZID)
DataCite Implementation: UMass Medical School Library

- **eScholarship@UMMS**
  - Data
  - Posters
  - Presentations
  - Theses & Dissertations
  - Post-prints
DataCite Implementation: UMass Amherst Libraries

- **ScholarWorks@UMassAmherst**
  - Using API to retrospectively assign DOIs to dissertations and theses
- Earn badges in the library
DataCite Implementation: CANDI
The scene

- Brain imaging studies:
  - Large numbers of subjects are needed, but scanning is expensive.
  - Data have become first-class research objects, and large data sets are collected and shared for reuse.
The problems

- Reproducibility
  - A study won’t typically use all of the scans from a large database and won’t report exactly which scans were used.

- Credit
  - If data is reused in a study, the data provider should be acknowledged for their contribution. Data providers will also want to track how their data is used.
The approach

- Data providers assign DOIs to large data releases and scans within those releases
- DOI metadata links the parts

creator: orcid:1985-1026-1955-1105

doi:10.18116/C6159Z

doi:10.18116/C6RP4R

doi:10.18116/C6MW2T

doi:10.18116/C6H599

CANDI
The approach (continued)

- New study takes a subset of the scans from multiple existing data releases.
- DOI is assigned to the collection of scans used in the new study.
- DOI metadata links the parts.

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doi:10.18116/C6159Z
```
```
doi:10.18116/C6RP4R
```
```
doi:10.18116/C6MW2T
```
```
doi:10.18116/C6H599
```
```
doi:10.18116/66H02X
```
The solution

- The authors publish the DOI of the data set they used, and the individual scans can be identified.

[Images of brain scans with DOIs provided]
The solution (continued)

- The source of the data can be tracked right back to the data providers, acknowledging their contribution and allowing them to track the use of the data they provided.
CANDI Share Schizophrenia Bulletin 2008 data
Imaging Data published 2008 via Child and Adolescent NeuroDevelopment Initiative
Data for CANDI Share Schizophrenia Bulletin 2008 (reference below) as part of the CANDI Neuroimaging Access Point.
This set includes preprocessed MRI images and segmentation results of all 4 diagnostic groups (Healthy Controls, N=29; Schizophrenia Spectrum, N=20; Bipolar Disorder with Psychosis, N=19; and Bipolar Disorder without Psychosis, N=35). Frazier JA, Hodge SM, Breeze JL, Giuliano AJ, Terry JE, Moore CM, Kennedy DN, Lopez-Larson MP, Caviness VS, Seidman LJ, Zablotsky B, Makris N. Diagnostic and sex...

https://doi.org/10.18116/c6159z
Questions?

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