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2016 e-Science Symposium

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Informationist: Informationist Breakout Session

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Informationist Breakout Session

eScience Symposium April 6, 2016

Hello!

I am Leah Honor

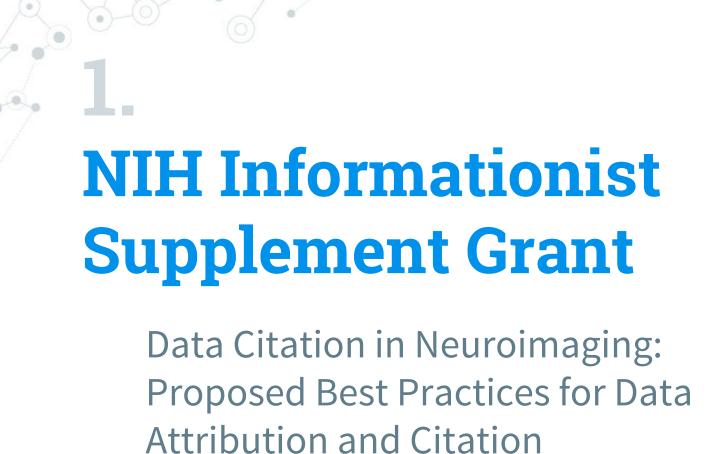
Informationist Liaison to the **C**hild and **A**dolescent **N**euro**D**evelopment Initiative (CANDI)



LSL Library Fellow

In this Session:

- 1. What we did, and why we did it
- 2. What I learned along the way
- 3. What we plan to do next



Data Sharing and Citation in Neuroimaging

Sharing and reusing data (images) is already accepted and common, but no standards exist on how to properly cite reused data, and how to maintain attribution to data creators.

Citations are often:

- Indirect Cite the paper where the data was presented, but not the data itself
- Unofficial Citations in acknowledgements or contribution sections
- Indefinite descriptions of sources and datasets
 in methods sections are not machine readable

What ARE Citations?

At their most basic level, citations are just a way to identify your sources.

Citing data, which has no specific format or structure, led us to ask: how can data be identified in a way that is direct, official, and definitive (and hopefully machine readable)?

What granularity of identification will be needed to accurately cite reused data? What about new datasets that draw from many sources?

Data DOIs In NITRC

NITRC - Neuroimaging Informatics Tools and Resources Clearinghouse

Realized we needed nested levels of identifiers:

- Project level assigned when new data is uploaded
- Image level each image carries its own identifier, as well as a parent project ID
- Functional level assigned to image sets created from existing data

To Create a New Functional Level DOI for an Image Set:

Query

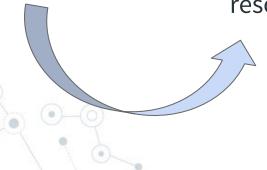
Using the standard repository search functions, a new image set is defined using standard criteria such as age, gender, handedness, diagnosis, etc.

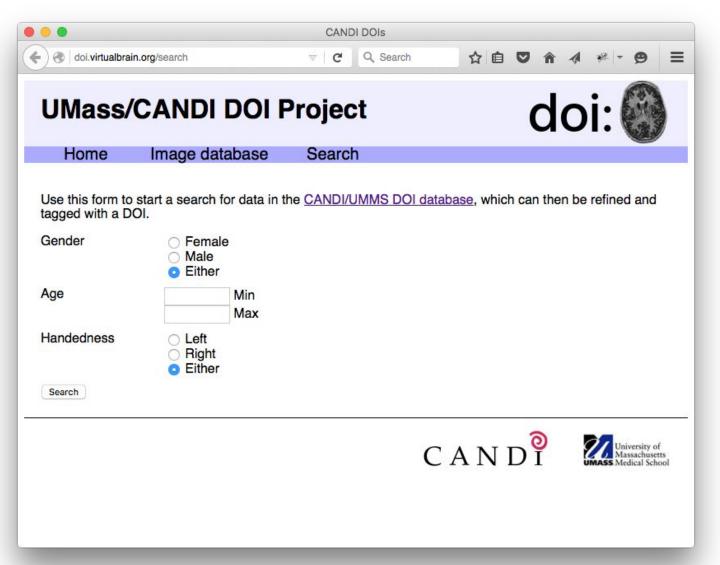
Result/Selection

Results can be reviewed and excluded, or additional images included, until the final collection of images has been resolved.

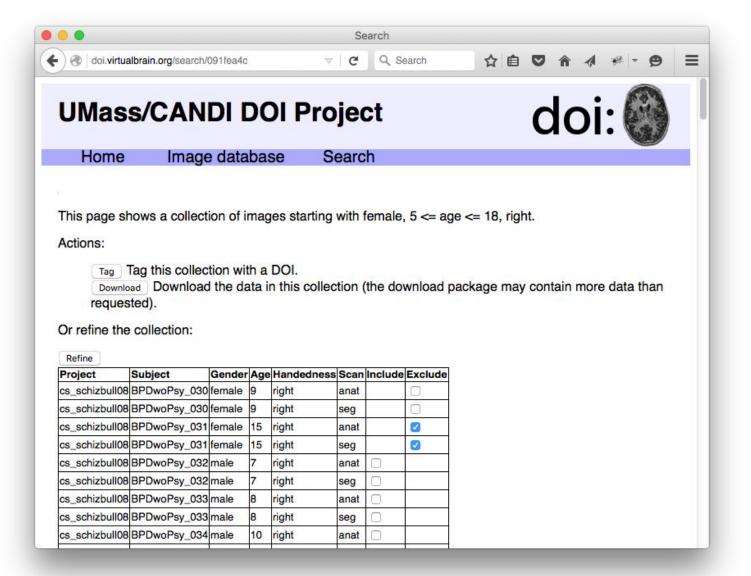
Tag Preparation

Basic metadata fields, such as authors, associated publication ID's, funders, and project description fields must be completed in order to create an identifier for the newly defined image collection.

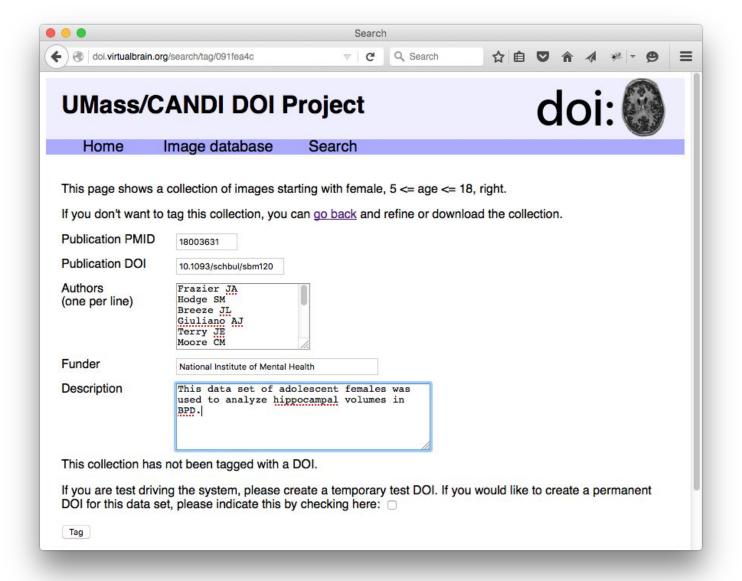




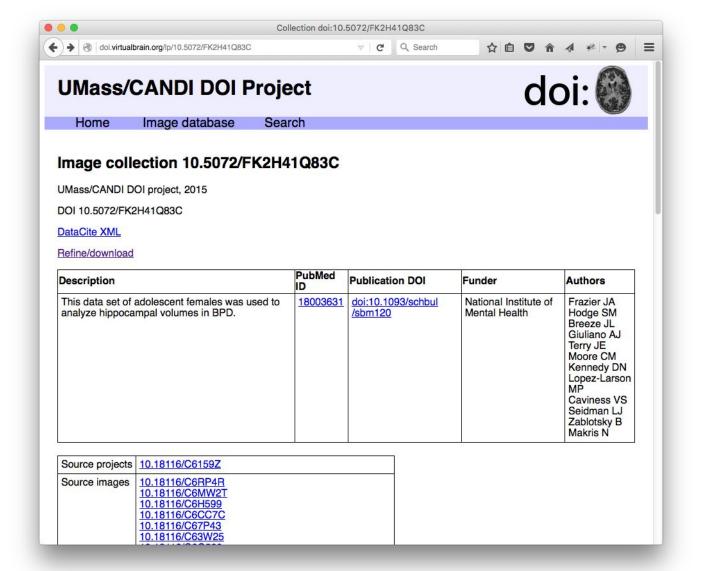
Functional DOI Process: Query



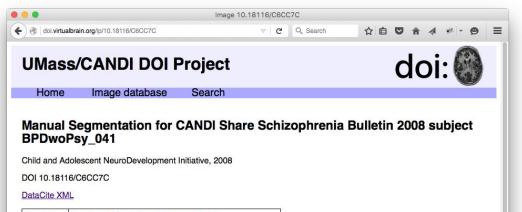
Functional DOI Process: Post Search Refinement



Functional DOI Process: Tag Creation

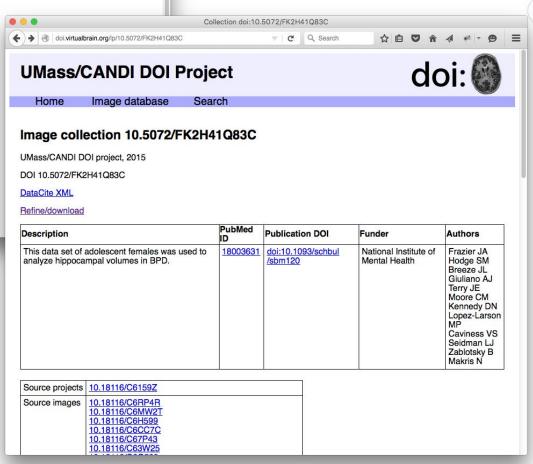


Functional DOI Landing Page



Creators Frazier JA (Cambridge Health Alliance) Hodge SM (Massachusetts General Hospital) Breeze JL (Cambridge Health Alliance) Giuliano AJ (Cambridge Health Alliance) Terry JE (Cambridge Health Alliance) Moore CM (Cambridge Health Alliance)
Kennedy DN (Massachusetts General Hospital)
Lopez-Larson MP (Cambridge Health Alliance)
Caviness VS (Massachusetts General Hospital) Seidman LJ (Massachusetts General Hospital) Zablotsky B (Cambridge Health Alliance) Makris N (Massachusetts General Hospital) Project 10.18116/C6159Z Collections 10.5072/FK2H41Q83C Sizes 167137 bytes Format NIfTI-1 1.1 Version Rights Creative Commons Attribution 4.0 International License

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Know Your Strengths

How I succeeded as an Informationist:

Necessary

- Info. science skills

 - Data management
 - Metrics and data usage reporting

Useful (but not critical)

- Neuroscience background
- Metadata standards

 Research experience

Main Takeaways:

There is no right answer! You are there to help find a better one than exists today.

When joining a research team you need to be willing to listen, to learn, and to be flexible in your ideas.

...but also remember you are not in this alone, and that research is a collaborative process. Have conversations, try different approaches, and keep the big picture in mind.



Thanks!

Any questions?

You can contact me at: Leah.Honor@umassmed.edu

