

How to Download ABCD Data

Michael Riedel

Florida International University

The following instructions are intended to be a guide for downloading ABCD data as it is presented on the NDAR website. These instructions should also provide you with the ability to download data from any other project on NDAR, so long as you have requested access to it. If you have any issues with these instructions, please feel free to email me with questions at mriedel@fiu.edu.

See the following links for additional information.

Request Access

<https://data-archive.nimh.nih.gov/abcd/request-access>

Querying the ABCD Study

<https://data-archive.nimh.nih.gov/abcd/query>

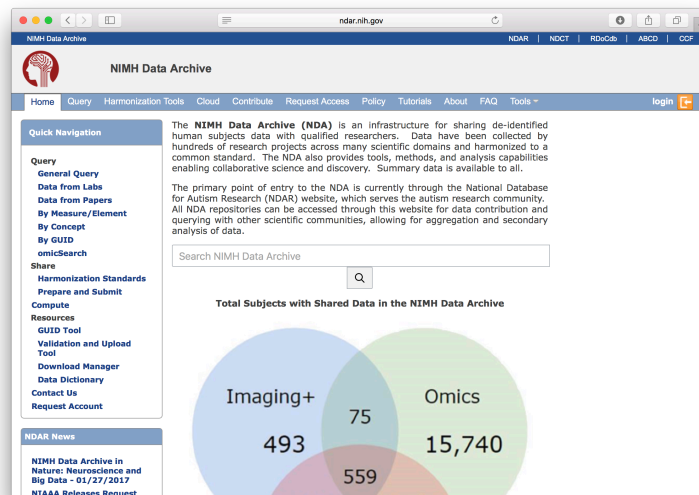
- Reading through the links on the right has proven useful.

Accessing Files in the Cloud

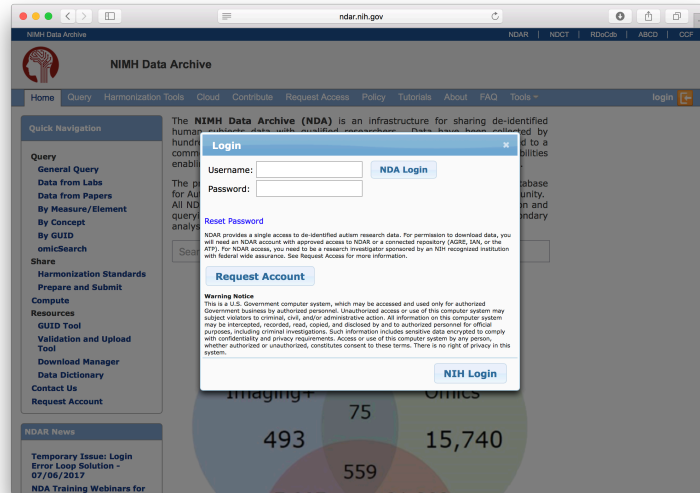
<https://data-archive.nimh.nih.gov/training/module?trainingModuleId=training.cloud-access&slideId=slide.creating.package>

Depending on the type of data you are downloading, you may be required to perform additional steps for downloading data from the AWS. For this, you will need to install the AWS command line tools on your computer, and you will need to email a contact at NDAR for access to files in the “cloud”.

- 1) Navigate your web browser to ndar.nih.gov.



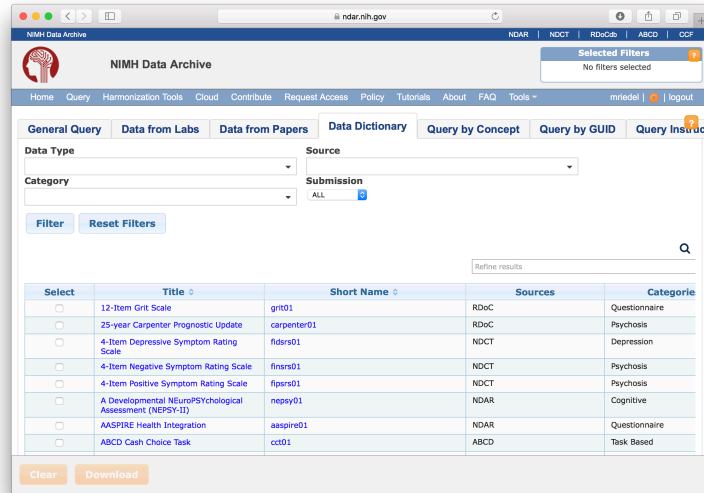
- 2) Log in using your NDA login credentials.



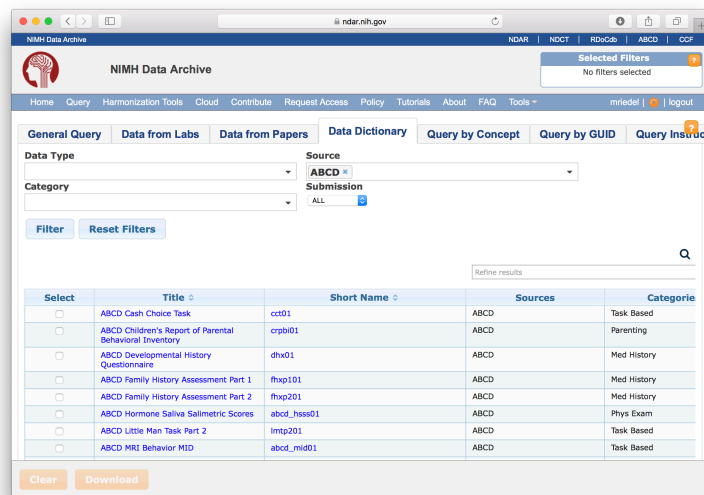
- 3) Once you log in, you may be brought to a profile page containing your institutional information, address, contact information, as well as ability to link your NIH Commons account if you have one.
 - o At the bottom of this page, you should have the ability to upload a document. This is where you may upload your ABCD Data Use Agreement form.
- 4) Click on “Query”.



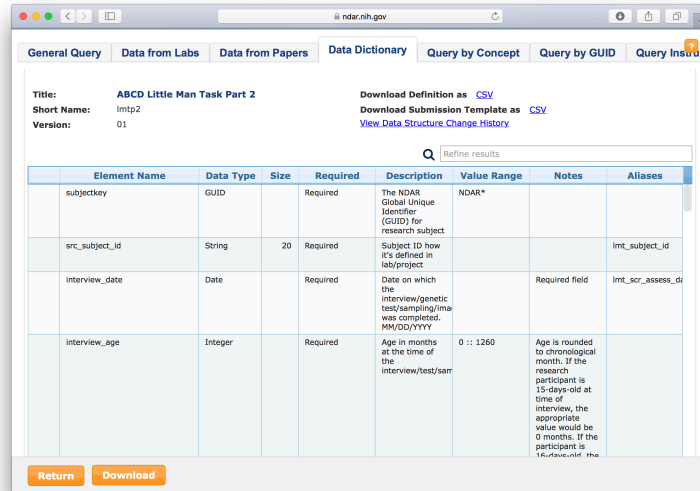
- 5) Click on “Data Dictionary”.



6) Under “Source”, select “ABCD”, then click “Filter”.

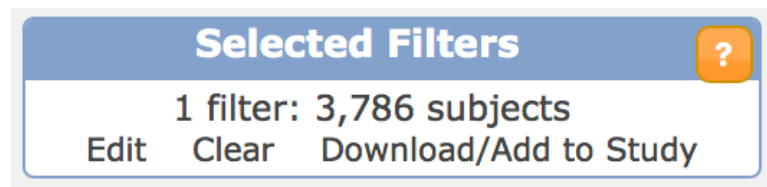


7) Choose task Title(s). Click the square box next to each title that you would like to download. If you would like to know what data are collected for each task, click on the title name. You will be brought to a new page where each item scored for each task is listed with a description.

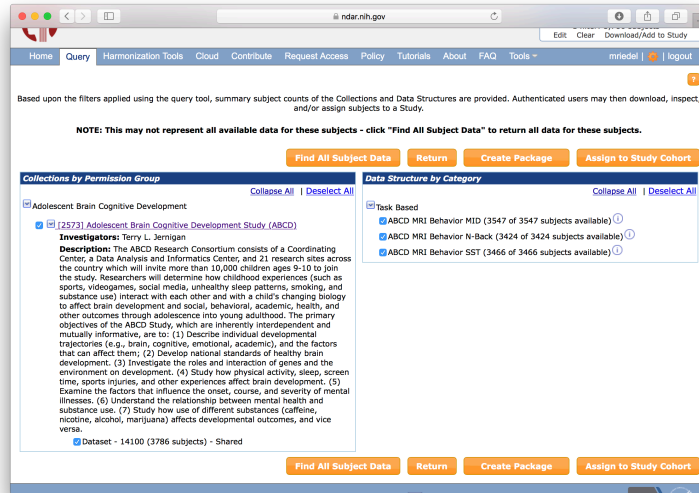


You can download the list of items collected for a given task by clicking on “Download Definition as CSV” (click on CSV). If you would like to download the data for this task, click on “Download” on the bottom left of the screen. You will see a window pop up that says this task is being “added to your cart”. At this point, in the upper right corner you should see a box that says “Selected Filters”, that is now populated with this task data requested. Proceed to the next step for download instructions.

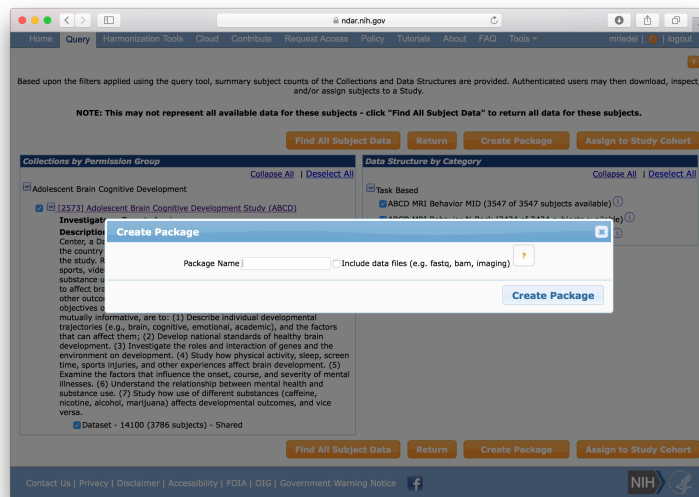
- 8) After selecting the tasks you would like to download, click “Download” on the bottom left of the screen. You will see a window pop up that says this task is being “added to your cart”. At this point, in the upper right corner you should see a box that says “Selected Filters”, that is now populated with this task data requested. Click on “Download/Add to Study”.



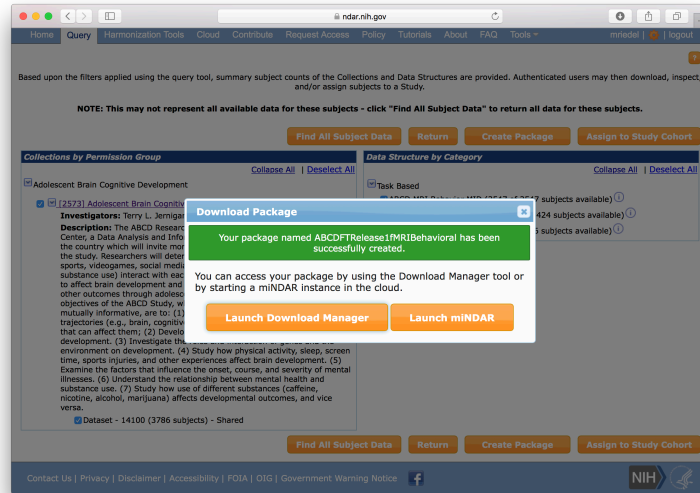
- 9) The next page will contain the project(s) for which you are downloading data on the left, and the tasks and number of subjects on the right. Note that if your task is used by more than one project, you may see other projects listed, such as NDAR. If you only want ABCD data, make sure just the box next to ABCD is selected.



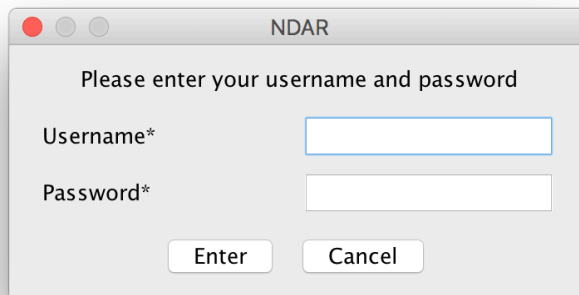
10) Now click “Create Package”. A pop up window will appear requesting you to enter the name of the data package you would like to download. Enter a name of your choosing and click “Create Package”.



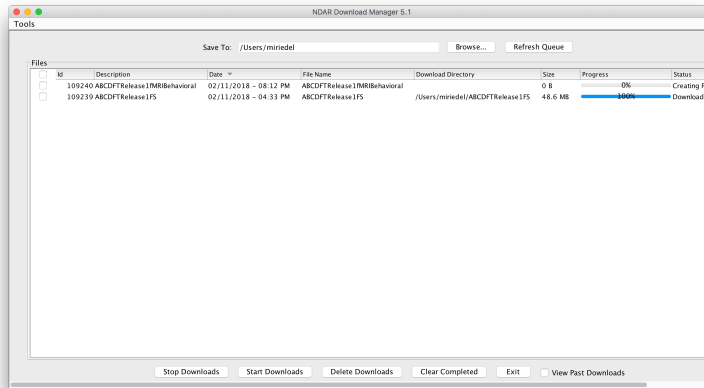
11) Once you do this, a window will appear that says creating package, and then you will have an option to download the data either from the “Download Manager” or “miNDAR”.



12) Click "Launch Download Manager", and a java file will be downloaded to your computer. Open this file and you will be asked to create and/or enter your login username and password.



13) Once you have entered this information, the download manager window appears with the packages you have selected to download.



Once the package is ready to download (I have found it to take quite some time for it to be ready, even for relatively small files), make sure you click the box next to the “Description Name” you previously entered, and click “Start Downloads” at the bottom of the screen. Your package will now be downloaded, and the data will be saved to the folder specified in this window.

Accessing Data in the Cloud Through AWS

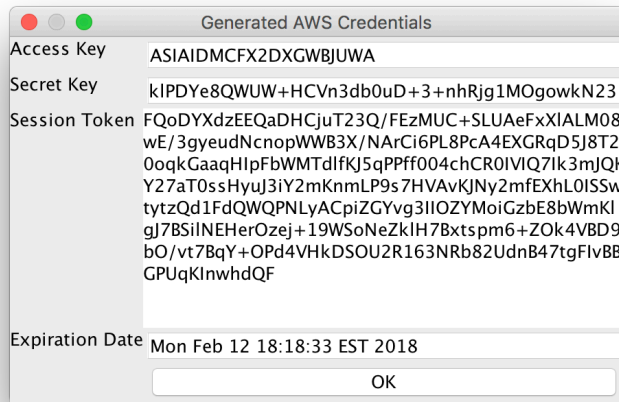
If you find that you need to access and download your data from the cloud, you will first need to contact a representative at NDAR for cloud access.

How do I get started?

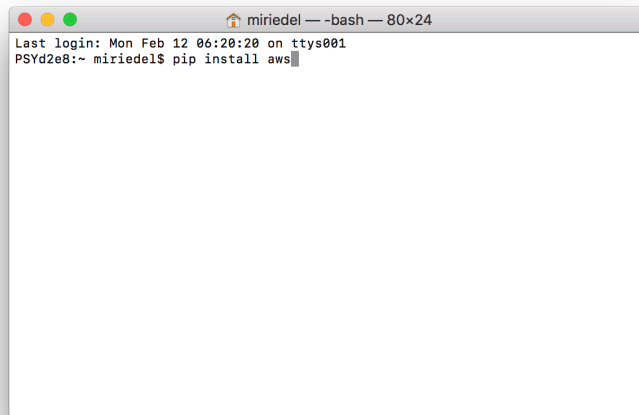
To begin, email NDAHelp@mail.nih.gov and request that cloud access be added to your account. Once your request is approved, the option to launch packages to a cloud hosted database will be available during package creation. You can deploy previously generated packages as well as new ones.

Once granted access, follow these instructions after downloading your package as indicated above.

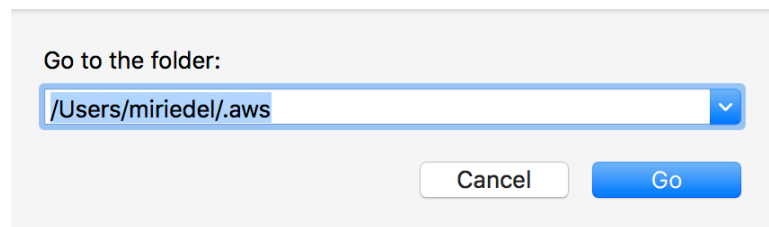
- 14) Click “Tools” in the upper left corner of the Download Manager from which you just downloaded your data package. Click, “Generate AWS Credentials”. You will see a window like this. Do not close this window, you will need the information in the next few steps.



- 15) If you have not already done so, you will need to install the AWS Command Line tools on your computer. Open a **Terminal** window, and type `pip install aws`
- If you are having permissions errors, try `sudo pip install aws`

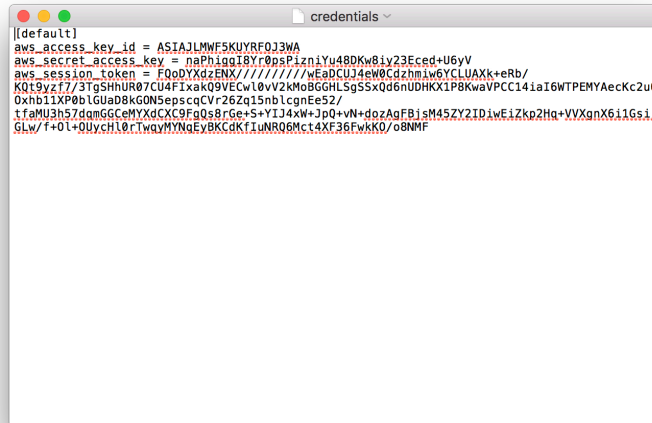


- 16) The credentials you generated in **Step 14** are temporary, and only can be used for 24 hours. Thus, you will need to perform these steps every time you would like to download data from the AWS if the 24-hour period has passed. Open a **Finder** window and click **Go > Go To Folder** (you can also press **Command + Shift + G**). Type the path to your user's home directory, followed by `.aws`. For example:



17) Open the “credentials” file.

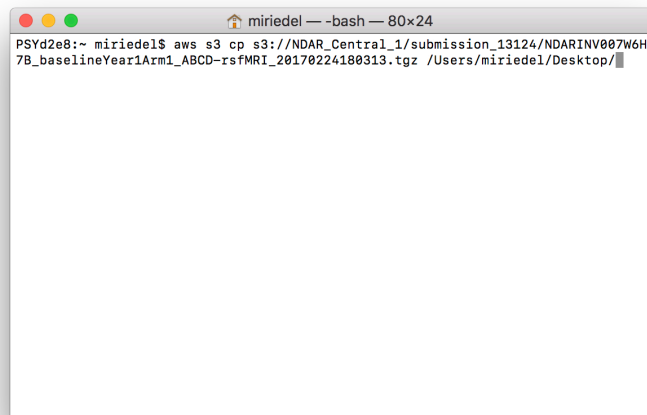
18) Copy and paste the credentials information you generated in **Step 14**. Save and close the “credentials” file.



```
[[default]]
aws_access_key_id = ASIAJLMWF5KUYRF0J3WA
aws_secret_access_key = naPhlgqI87r0psP1zn1Yu480Kw8iy23Eced+U6yV
aws_session_token = F0oDYXdzENX////////wEaDCUJ4eW0Cdzhm1w6YcLUAXk+eRb/
KQ19yzf7/3tgSHUR07CU4F1xak09VEcWl0vV2kMoBGGHLsq5SxQd6nUDHKX1P8KwaVPCC14IaI6WTPEMYaecKc2uQ
Oxhb11XP0b1GuaD8kG0N5epsqCvR26Zq15nblcgnEe52/
tfaMU3h57damGGCeMYXdCXC9Fg0s8rGe+S+YI4xW+JpQ+Vn+dozAgFBjsM45ZY2IDiwEiZkp2Ha+VvXgnX6i1Gs.i.r.
GLw/f+0l+0UycHl0rTwaqMYWqEyBkCkF1uNR06Mct4XF36FwkK0/o8NMF
```

19) Locate the “S3” link in your file that you downloaded from the data package. Copy the full “S3” link.

20) Open a **Terminal** window. Insert the command as seen in the image below, pasting your link as necessary.



```
PSYd2e8:~ miriedel$ aws s3 cp s3://NDAR_Central_1/submission_13124/NDARINV007W6H7B_baselineYear1Arm1_ABCD-rsfMRI_20170224180313.tgz /Users/miriedel/Desktop/
```