Meeting with Dr. Dickie:

* Clarify our understanding of the problem (identifying sleep state from mri image)
  + Supervised unsupervised?
  + Existing labels to classify from or build our own?
  + Time series data or single time snapshot?
* What stage is the process at? (project mentions two phases)
* Look at BIDS data format (industry standard)
* Check out scikit learn “ni-learn” neuroimaging package
* 1st task: Classification of tasks on this dataset
* 2nd task: generate unsupervised features and look correlation/scale between tasks
* 3rd task: see if these unsupervised features scale with the sleepiness

<https://openneuro.org/datasets/ds000201/versions/1.0.3>

Problem / Business Case:

1. What problem are we solving?
2. Can we get more context / background to the problem?
3. At what stage is the problem? Just starting? Are we improving an existing solution?
4. What is/are your expected deliverables?
5. What support resources we can get? Hours per day? Per week?
   1. Subject Matter Expert?
   2. Tech support?
   3. Exec support?

Computing / Data / Architecture

1. How do we access your data?
2. What is your computing architecture?

General Housekeeping

1. David to add current project to Riipen
2. Check-in Frequency? Bi-weekly preferred...

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30/Jul/2020 - Meeting with Dr. Dickie

* Nilearn?

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22/Aug/2020

Notes / Questions to Dr.Dickie

1. NiftiMasker - ‘Standardize = True’ blurs the images
2. What does standardize do?
3. Are the images standardized during pre-processing?

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2/Sep/2020

1. Take a correlation of all BOLD signals and take the top or bottom triangles
2. Chop the BOLD Time at the beginning
3. Fourier transform of both BOLD & Confounds
4. Ok to add confounds as variables to the traditional models
5. \*Neurostars
6. Tony - Confounds before or after Masking?
   1. Dr.Dickie - Nifti masker can take confounds as additional inputs
   2. <https://github.com/edickie/ciftify/blob/master/ciftify/bin/ciftify_falff.py>
   3. <https://neurostars.org/>
   4. <https://pubmed.ncbi.nlm.nih.gov/29278773/>
7. 6 head motion, 3 global signals(WM, CSF, GS), their first derivatives and square all the eighteen