#### **Code Review Checklist**

Most important before paper

Important every session

Unclear

| **Usability** | **Comments (at least Yes / No)** |
| --- | --- |
| Is the code easy to install? Are there setup instructions and a list of requirements? |  |
| Is there an example script or a full pipeline that is easy to run and understand? |  |
|  |  |
| **Data preparation** |  |
| Are data loading and analysis implemented as separate steps? Ideal: have a data loader class | yes |
| Is ALL data used available in the cluster |  |
|  |  |
| **Analysis & Plotting** |  |
| Are the different steps of the analysis clearly identified in the README? | Yes but more details would help to better understand |
| Does the analysis code reflect what is described in the paper? If applicable |  |
| Is it clear what code is used to create each of the figures or panels in the paper? |  |
|  |  |
| **Code quality** |  |
| Project in periodically updated in github, gitignore, README |  |
| Project structure: folders: data, notebooks, scripts, figures | It could be useful to create a folder for plot scripts only |
| Is the code well organized (functions, classes, modules, settings, ... as applicable)? | Some functions(e.g. Load\_or\_configure; configure\_settings…) are defined in the main file (MAIN.m), they can be saved in a different file |
| Are all functions and classes documented? | Some of the comments are in french, they could be translate |
| Are some values hardcoded? | Yes (e.g decoding2\_lfp.m) |
| Can any of the code be replaced by existing packages? |  |
| Are there any obvious optimisations that will improve performance? |  |
| Is there any redundant code that should be removed? | Several functions files have multiple version (decoding\_lfp and decoding2\_lfp) and it is not clear the difference between them |
| Does the code agree with basic style guidelines (e.g. PEP8 for Python) |  |
| Variables names are self explanatory (eg no a, b, c etc) | yes |
|  |  |
| Are there any passwords in the repo or exposed in the code? | no |
| Is any identifying information unwillingly exposed? | no |