#### **Code Review Checklist**

Most important before paper

Important every session

Optional

| **Usability** | **Comments (at least Yes / No)** |
| --- | --- |
| Is the code easy to install/run? Are there setup instructions and a list of requirements? | yes |
| Is there an example script or a full pipeline that is easy to run and understand easily explained in the README? | There is the indication to the encoding model explanation |
|  |  |
| **Data preparation** |  |
| Are data loading and analysis implemented as separate steps? Ideal: have a data loader class | No |
| Is ALL data used available also in the cluster | No |
|  |  |
| **Analysis & Plotting** |  |
| Are the different steps of the analysis clearly identified in the README? | Briefly mentioned but not clear |
| Does the analysis code reflect what is described in the paper? If applicable | Yes |
| Is it clear what code is used to create each of the figures or panels in the paper? | You can find them but they are not clearly pointed to the figures of the paper |
|  |  |
| **Code quality** |  |
| Project in periodically updated in github, gitignore, README | Only one commit, hard to say |
| Project structure: folders: data, notebooks, scripts, figures | There are folders that make sense, but many scripts are outside of these folders. So there’s room to improve. |
| Is the code well organized (functions, classes, modules, settings, ... as applicable)? | Yes |
| Are all functions and classes documented? | Yes |
| Are some values hardcoded? | Yes, but seems justified |
| Can any of the code be replaced by existing packages/functions? | We don’t know |
| Are there any obvious optimisations that will improve performance? | We don’t know |
| Is there any redundant code that should be removed/refactored? | Doesn’t seem like it |
| Consistent, readable coding style (bonus points if. PEP8 for Python) | yes |
| 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 |