

BIONETS student checklist for theses, projects, and seminars

This checklist reflects what your grader will pay attention to in your code, written thesis/report/student paper, and oral presentation.

1. Code

- ☐ Your code (and any data it depends on) is available in a public or accessible repository (e.g., GitHub) and is released in a stable version with a DOI (e.g., on Zenodo).
- ☐ Your code is documented well enough that someone else could understand and use it (e.g., Readme, comments).
- ☐ Your code is easy to install and run; dependencies are declared and managed properly (e.g., requirements file, environment/package manager).
- ☐ Your code follows a meaningful, modular structure.
- ☐ The results you report in your paper/thesis can be reproduced from the code.
- ☐ Be ready to answer in-depth technical questions about your repository structure and your source code.

2. Written thesis, report, or student paper

- ☐ General points:
 - ☐ Be ready to answer in-depth technical questions about the contents of your thesis, report, or student paper.
 - ☐ Make sure your work follows a meaningful structure.
 - ☐ Provide appropriate references for non-trivial statements.
 - ☐ Ensure that everything is formatted correctly: your text, figures, tables, equations, and references.
- ☐ Additional points for a thesis or project report:
 - ☐ Motivate your research question.
 - ☐ Report the research gap and your contribution to the field.
 - ☐ Provide as much biological, mathematical, and computer science background as a fellow student would need to understand your work.
 - ☐ Reference and discuss related work and how your contribution relates to it.
 - ☐ All major methods and data sources should be described with sufficient detail to allow replication.
 - ☐ Present results in a meaningful way and illustrate major points with figures or tables. Interpret the results with care.
 - ☐ Figures and tables should be clean, legible, and contain informative captions. All figures and tables should be referenced within the main text.
 - ☐ The discussion should contain the limitations of your work, a summary, a conclusion, contextualization of your results, and an outlook.

- ☐ Additional points for a student paper (Network Medicine Seminar)
 - ☐ Include an exposition of the research field.
 - ☐ Describe the individual articles.
 - ☐ Describe links between the articles (e.g., similarities, differences).

3. Oral presentation

- ☐ Your slides should not be overloaded, and visualizations should be clean.
- ☐ Avoid overreliance on bullet lists and focus on meaningful graphical aids.
- ☐ Present your work in a meaningful order that is comprehensive and understandable.
- ☐ Respect the time limit set by your supervisor.
- ☐ Practice the talk beforehand. This can help you stick to your allocated time and to make your presentation style more engaging.
- ☐ Be ready to answer questions after your talk.