

PROJECT GUIDELINES

- Class Project is an individual assignment.
- Use your data, data from your lab, from a published paper, or from internet, in a broad area of Science and Engineering but within the scope of Bayesian methodology.
- Make sure that credits to the source of data are given. If the data are coming from a published paper, references should be provided or a pointer to the web source should be given.

PROJECT DELIVERABLES

(i) Self-contained and executable *.odc file that contains a short description, Win/OpenBUGS program, and the relevant output. Comments about the solution and output should be given as remarks, but short and up to the point. A good template are files from WinBUGS/OpenBUGS built in Exercises I, II, or III, but without doodle graphs. For example: Examples > Examples Vol I >:

```
Rats:Normalhierarchicalmodel
Pump:conjugategamma-Poissonhierarchicalmodel
Dogs:loglinearbinarymodel
Seeds:randomeffectslogisticregression
Surgical:institutionalranking
Magnesiummeta-analysispriorsensitivity
Salm:extra-Poissonvariationindose-responsestudy
...
```

(ii) Any supporting material that you think is useful (e.g., which cannot fit in a short laymen intro on the top of *.odc file). It could be a paper, additional file with your explanations, discussion of results, pointers to or excerpts from the web, etc. This depends on the nature of your project and is not uniform.

- Electronic submission of deliverables via Canvas.

HOW IS YOUR PROJECT EVALUATED?

The Project is evaluated from 0 to 100 points:

- up to 70 pts for executable *.odc file (either WinBUGS/OpenBUGS). Executable files in STAN or PyMC3 are accepted as well.
- up to 30 pts for the effort, originality, problem selection, problem description/formulation, a discussion of results. This additional material should not exceed 5 pages.