

## **Winbugs**

To download the program, follow the instruction from:

<http://www.mrc-bsu.cam.ac.uk/bugs/winbugs/contents.shtml>

### **Create a DAG in Winbugs**

1. Doodle – new
2. Create a node: click
3. Delete a node: Ctrl + delete
4. Create a plate: click + holding Ctrl
5. Delete a plate: Ctrl + delete
6. Arrow: Select the end node and click the parent while holding Ctrl

### **Run the MCMC and display results**

1. Doodle – Write code
2. Model specification
3. Check model
4. Load data
5. Compile
6. Load inits
7. Inference sample (write parameters + set)
8. Model update
9. In the “Sample monitor tool” select: trace, stats, etc.

### **Import data from R**

1. From: <http://www.public.iastate.edu/~alicia/stat544/> (Software -> From R to Winbugs), download the file [writeDatafileR.txt](#)
2. Write in R:  

```
> source("writeDatafileR.txt")
```
3. Given that x is a data.frame, que llamamos x, type in the R command prompt:  

```
writeDatafileR(x, "x.txt")
```
4. This will make a file “x.txt” with the data that we may copy and paste in our Winbugs code.