## Environmental Models and Bayesian Inference

## Application Letter

Lecturers and organizers: Dmitri Kavetski (University of Adelaide) and Juliane Mai (University of Waterloo)

## Background knowledge

Rate yourself! Please fill the following table by judging your basic mathematical, statistical and computational background. ( $1=$ no knowledge, $3=$ used in a course but not used since then, $5=$ used maybe once per week but still have to look up most of commands, $7=$ daily usage and on my way to become expert, $10=$ expert and daily usage).

|  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematical Modeling: | Basic calculus |  |  |  |  |  |  |  |  |  |  |  |
|  | Ordinary differential equations |  |  |  |  |  |  |  |  |  |  |  |
| Statistics: | Basic properties of probability distributions, including |  |  |  |  |  |  |  |  |  |  |  |
|  | Gaussian and exponential distributions |  |  |  |  |  |  |  |  |  |  |  |
| Programming: | Matlab |  |  |  |  |  |  |  |  |  |  |  |
|  | Python |  |  |  |  |  |  |  |  |  |  |  |
|  | R |  |  |  |  |  |  |  |  |  |  |  |
|  | Excel |  |  |  |  |  |  |  |  |  |  |  |
|  | Other program/language: |  |  |  |  |  |  |  |  |  |  |  |
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## Background/ education/ field of research

Write 3-4 sentences about your educational background, your major subjects of education and your current field of research. (Use additional page if the space is not sufficient.)
Motivation to attend course
Wirite 2-3 sentences about where you want to apply the techniques learnt during this course. Which kind of applications do you have? Which problems do you want to address? (Use additional page if the space is not sufficient.)

## Expectation

Write 1-2 sentences to describe what you expect to learn during this course? Do you want to get an overview? Do you want to use it for a specific problem? Do you want to understand literature better? (Use additional page if the space is not sufficient.)

Please send to juliane.mai@uwaterloo (Subject: Application Env. Models \& Bayesian Inference - YOUR NAME) no later than February $10^{\text {th }} 2 \mathrm{pm}$ ). The decision will be made until February $13^{\text {th }}$. You will be notified by email.

