

Advanced Statistics Workshop 2020

by Prof Nagaraja (The Ohio State University) and Dr Kavita Isvaran (CES)

Location: *Computer Lab, Centre for Ecological Sciences, Indian Institute of Science*

1) Topic 1: Generalised Linear Models (GLM)

- a) 10th January (Friday) 10am - 1pm: Discrete data problems - Prof Nagaraja
- b) 13th January (Monday) 10am - 1pm: GLMs with examples of binary and proportion data - Prof. Nagaraja
- c) 14th January (Tuesday) 10am - 1pm: R Session: Applying GLMs to ecological data sets - Kavita

(15th Jan 2020 is a HOLIDAY)

- d) 16th January (Thursday) 10am - 1 pm: GLMs with examples of count data - Prof. Nagaraja
- e) 17th Jan (Friday) 10am - 1pm: R Session: Applying GLMs to ecological data sets - Kavita

2) Topic 2: Mixed-effects Models

- a) 27th Jan (Monday): 10am - 1 pm: GLM With examples of zero inflation + R session (by Prof Nagaraja)
- b) 28th Jan (Tuesday): 10am - 1pm: Linear mixed-effects models - Prof. Nagaraja
- c) 29th Jan (Wednesday): 10am - 1pm: Generalised Linear Mixed-effects Models GLMMs - Prof. Nagaraja
- d) 30th Jan (Thursday): 10am - 1pm: R Session: Applying LMMs to ecological data sets - Kavita
- e) 31st Jan (Friday): 10 am - 1pm: R Session: Applying GLMMs to ecological data sets - Kavita

During R session days, other students can meet Prof Nagaraja for discussion on their specific datasets.