Schedule

Friday, 4 December 2020 14:07

Meetinas:

- - Friday 13⁰⁰-16⁰⁰ GMT+1 (sessions end earlier in we are done earlier, of course)
 - Weekly (see Proposed Timeline further down)
- · Contents:
 - We follow the material noted further down under **Group Material**
- We prepare ourselves by working through the material noted for each session in the *Preparation Column* in **Proposed Timeline** At the start of each session, either me or a volunteer quickly presents a summary of the preparation material. This does not mean a presenter should have mastered the material at all simply be able to provide a red-thread through the contents and get a discussion going. We then go into questions/challenges concerning the material, practical examples, and personal implementations.

 Location: Zoom @ https://aarhusuniversity.zoom.us/i/65455334420 (meetings will be recorded to make sure everyone can stay up-to-date even if they miss one or more sessions or are unable to join on-time, or stay for the entire duration).
- Credits: I have spoken to the management at AU and PhD students are very likely to receive study credits (ECTS) for partaking in this study group. How many, I don't know yet, but I would assume around 3-5.

Group Material:

- Lecture Recording "Statistical Rethinking" by Richard McElreath; available here: https://www.youtube.com/playlist?list=PLDcUM9US4XdNM4Edgs7weiylguLSToZRI
 Book "Statistical Rethinking" by Richard McElreath; available here: https://github.com/Booleans/statistical-rethinking/blob/master/Statistical%20Rethinking%202nd%20Edition.pdf
- Practical Examples:

 - actical Examples:

 Course Material "Statistical Rethinking": https://github.com/rmcelreath/stat rethinking.2020

 Book "Introduction to WinBUGS for Ecologists" by Marc Kéry; available here: https://www.sciencedirect.com/book/9780123786050/introduction-to-winbugs-for-ecologists

 Book "Bayesian Population Analysis using WinBUGS" by Marc Kéry; and Michael Schaub; available here: https://www.sciencedirect.com/book/9780123870209/bayesian-population-analysis-using-winbugs
- Further Input (all prospective if I can get a hold of the people):

 - o Jason Matthiopoulos (https://www.gla.ac.uk/researchinstitutes/bahcm/staff/jasonmatthiopoulos/)
 o Joseph Chipperfield (https://www.nina.no/english/Contact/employees/employeeinfo.aspx?AnsattlD=16057)
 - Jörn Pagel (https://www.uni-hohenheim.de/en/organization/person/dr-joern-pagel)
 - $\circ \quad \textbf{Florian Hartig (https://www.uni-regensburg.de/biologie-vorklinische-medizin/theoretische-oekologie/mitarbeiter/hartig/)} \\$

Proposed Timeline:

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Date	Topic	Session Type	Preparation
11/12/20	Golem of Prague	Theoretical/Practical/Discussion	Chapter 1 in "Statistical Rethinking" Lecture 1 in "Statistical Rethinking"
18/12/20	The Basic of Bayesian Inference & Calculations	Theoretical/Practical/Discussion	Chapter 2 & 3 in "Statistical Rethinking" Lecture 2 in "Statistical Rethinking"
25/12/20 & 01/01/20	Holiday Break		
08/01/21	Geocentric Models	Theoretical/Practical/Discussion	Chapter 4 in "Statistical Rethinking" Lecture 3 & 4 in "Statistical Rethinking"
15/01/21	TBD	Input Talk	TBD
22/01/21	The Many Variables & The Spurious Waffles	Theoretical/Practical/Discussion	Chapter 5 in "Statistical Rethinking" Lecture 5 in "Statistical Rethinking"
29/01/21	The Haunted DAG & The Causal Terror	Theoretical/Practical/Discussion	Chapter 6 in "Statistical Rethinking" Lecture 6 in "Statistical Rethinking"
05/02/21	Ulysses' Compass	Theoretical/Practical/Discussion	Chapter 7 in "Statistical Rethinking" Lecture 7 & 8 in "Statistical Rethinking"
12/02/21	TBD	Input Talk	TBD
19/02/21	Conditional Manatees	Theoretical/Practical/Discussion	Chapter 8 in "Statistical Rethinking" Lecture 9 in "Statistical Rethinking"
26/02/21	Markov Chain Monte Carlo	Theoretical/Practical/Discussion	Chapter 9 in "Statistical Rethinking" Lecture 10 in "Statistical Rethinking"
05/03/21	Big Entropy and the Generalized Linear Model	Theoretical/Practical/Discussion	Chapter 10 in "Statistical Rethinking" Lecture 11 in "Statistical Rethinking"
12/03/21	TBD	Input Talk	TBD
19/03/21	God Spiked the Integers	Theoretical/Practical/Discussion	Chapter 11 in "Statistical Rethinking" Lecture 12 in "Statistical Rethinking"
26/03/21	Monsters and Mixtures	Theoretical/Practical/Discussion	Chapter 12 in "Statistical Rethinking" Lecture 13 & 14 in "Statistical Rethinking"
02/04/21	Easter Break		
09/04/21	Models With Memory	Theoretical/Practical/Discussion	Chapter 13 in "Statistical Rethinking" Lecture 15 & 16 in "Statistical Rethinking"
16/04/21	TBD	Input Talk	TBD
23/04/21	Adventures in Covariance	Theoretical/Practical/Discussion	Chapter 14 in "Statistical Rethinking" Lecture 17 & 18 in "Statistical Rethinking"
30/04/21	Easter Break		
07/05/21	Missing Data and Other Opportunities	Theoretical/Practical/Discussion	Chapter 15 in "Statistical Rethinking" Lecture 19 & 20 in "Statistical Rethinking"
14/05/21	Generalized Linear Madness	Theoretical/Practical/Discussion	Chapter 16 in "Statistical Rethinking"
21/05/21	Summary	Theoretical/Practical/Discussion	TBD