Chapters

1. Mission statement – open science, improved statistical toolbox and intellectual humility.
2. Statistical thinking and the computational age of statistical inference
3. A little “statical war” history – Frequentist/Bayes
4. Data – Discrete continuous, Metric, ordinal, count
5. Probability. Conditioning and Bayes theorem
6. Sampling theory
7. The Basics of Python coding for data analysis- i.e. Pandas, NumPy, Matplotlib
8. Summarising and Visualising data – Descriptive stats, histograms, Boxplots, Skew
9. The GLM
10. NHST
11. MCMC- metropolis- HMC
12. Contrasts
13. Bayes Factors
14. Statistical Power
15. Reporting results.