Department of Psychology
The University of Hong Kong
香港大學心理學系

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Workshop (Via Zoom)

JAMOVI, JASP, and simple R packages as powerful open-source open-science software for doing stats

1:00 p.m. – 4:00 p.m. │ September 28, 2020 (Monday)

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Abstract

In this 3-hour workshop we will introduce powerful open-source tools JAMOVI, JASP, and R/Rstudio to conduct high-quality open-science statistics.

JAMOVI/JASP have in recent years become very powerful and robust, on par and exceeding other traditional tools like SPSS and SAS, with important advantages. JAMOVI/JASP offer dialog-box click and choose interfaces, very similar to that of stats software such as SPSS, yet driven with the stats engine power of open-source R, resulting in reproducible APA friendly outputs supporting recent trends in psychological science (e.g., new statistics, effect-sizes, confidence intervals, and comprehensive graphing/plotting).

R has come a long way in recent years and is simpler and more approachable than ever before. Simple and powerful R packages like ggstatsplot and the tidyverse offer remarkable data manipulation, stats, and plots in simplified single lines of code.

The academic community has joined to create many high-quality manuals, books, video courses, and extensions. At the University of Hong Kong psychology department we used these tools in three undergraduate courses (PSYC2020, PSYC3052, and PSYC2071) and have concluded the experience as very positive. We gained valuable insights about the process of adaptation, and have developed helpful instructional materials and tools.

The workshop will be hands-on. We will guide you through the basics of both tools, beginning from importing, editing, computing variables, through common stats (descriptives, plots, correlations, regressions, chi-square, t-tests, ANOVAs, factor-analysis), and finally briefly touching on advanced statistics and extensions (flexplot and jjstatsplot plotting, moderation/mediation, meta-analysis, SEM, Bayesian, equivalence-testing, R snippets). We will conduct these together on dataset examples.

Please note: This is not a stats workshop. I will assume basic knowledge of stats. To save time please do the following before the workshop:
Download and install JAMOVI: https://www.jamovi.org/download.html
Download and install JASP: https://jasp-stats.org/download/

I'll also be briefly demonstrating R on RStudio, if you wish to follow then please download and install R/RStudio: https://www.rstudio.com/products/rstudio/download/#download
Quick howto video: https://www.youtube.com/watch?v=d-u_7vdag-0

About the HKU mass pre-registered replication project using JAMOVI/R in undergraduate classes:
http://mgto.org/pre-registered-replications/
Our HKU JAMOVI/JASP/R collaborative guide: http://mgto.org/hkujamovijasprguide
Our effect size, confidence intervals, and power collaborative guide: http://mgto.org/effectsizepowerguide
Our JAMOVI/JASP cloud folder with lots of goodies: https://tinyurl.com/hku2018jamovi

Please do go over the resources and prepare questions you'd like me to address in the workshop.
Feel free to email me in advance at gfeldman@hku.hk if there's a specific concern or practicality you'd like me to address.

Register in advance for this meeting: https://hku.zoom.us/meeting/register/tJYtcuGoqzIvH9D8pefCh1Rjw5ZriuRDxlcQ

After registering, you will receive a confirmation email containing information about joining the meeting.

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~All are Welcome~

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