Running head:	WRITING	WITH PAPA	JA
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- Writing an academic paper using papaja and RStudio: A moderated mediation diary study
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Author Note

The authors declare no conflict of interest.

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Abstract 10

One or two sentences providing a basic introduction to the field, comprehensible to a 11

scientist in any discipline. 12

Two to three sentences of more detailed background, comprehensible to scientists 13

in related disciplines.

One sentence clearly stating the **general problem** being addressed by this particular 15

study. 16

One sentence summarizing the main result (with the words "here we show" or their 17

equivalent). 18

Two or three sentences explaining what the main result reveals in direct comparison

to what was thought to be the case previously, or how the main result adds to previous

knowledge.

One or two sentences to put the results into a more **general context**. 22

Two or three sentences to provide a **broader perspective**, readily comprehensible to 23

a scientist in any discipline.

25

Keywords: motivation, cognition, zombies, pancakes

Word count: 1356 26

- 27 Writing an academic paper using papaja and RStudio: A moderated mediation diary study
- Life is hard. And so is writing the introduction to a paper. Here I have quoted some
- 29 sources (Alfes, Shantz, & Alahakone, 2016; Barrick & Parks-Leduc, 2019). And here I have
- quoted even more (Gurbuz, 2009; Koopman et al., 2019; Robison & Unsworth, 2018). It
- should be clear by now that this is a really good paper. Thus, we hypothesize:
- H1: This is an awesome paper.

I like pancakes

- Pancakes are good (Deci, Olafsen, & Ryan, 2017; Demerouti, Bakker, & Halbesleben, 2015). I could eat pancakes all day.
- H2: This hypothesis is better than the last one.

37 Methods

8 Participants

33

- Our sample consisted of 100 first-year psychology students, of which sixty-six were
- female and thirty-four were male. The mean age was 23.69 years (SD = 4.71).
- 41 Material
- 42 Procedure

43 Data analysis

- We used R (Version 3.6.2; R Core Team, 2019) and the R-packages dplyr (Version
- 45 0.8.3; Wickham et al., 2019), forcats (Version 0.4.0; Wickham, 2019a), qqplot2 (Version
- 46 3.2.1; Wickham, 2016), papaja (Version 0.1.0.9942; Aust & Barth, 2020), psych (Version

- 1.8.12; Revelle, 2018), purrr (Version 0.3.3; Henry & Wickham, 2019), readr (Version 1.3.1;
- Wickham, Hester, & Francois, 2018), stringr (Version 1.4.0; Wickham, 2019b), tibble
- ⁴⁹ (Version 2.1.3; Müller & Wickham, 2019), tidyr (Version 1.0.2; Wickham & Henry, 2020),
- and tidyverse (Version 1.2.1; Wickham, 2017) for all our analyses.

Results

Table 1 shows the means, standard deviations and correlations between all study variables.

54 Discussion

Without a doubt, there is a lot to discuss. As shown in figure 1, our findings indicate several things.

57 References

- Alfes, K., Shantz, A., & Alahakone, R. (2016). Testing additive versus interactive effects of
- person-organization fit and organizational trust on engagement and performance.
- Personnel Review, 45(6), 1323–1339. https://doi.org/10.1108/PR-02-2015-0029
- Aust, F., & Barth, M. (2020). papaja: Create APA manuscripts with R Markdown.
- Retrieved from https://github.com/crsh/papaja
- 63 Barrick, M. R., & Parks-Leduc, L. (2019). Selection for Fit. Annual Review of
- Organizational Psychology and Organizational Behavior, 6(1), 171–193.
- 65 https://doi.org/10.1146/annurev-orgpsych-012218-015028
- 66 Deci, E. L., Olafsen, A. H., & Ryan, R. M. (2017). Self-Determination Theory in Work
- Organizations: The State of a Science. Annual Review of Organizational Psychology
- and Organizational Behavior, 4(1), 19–43.
- 69 https://doi.org/10.1146/annurev-orgpsych-032516-113108
- Demerouti, E., Bakker, A. B., & Halbesleben, J. R. B. (2015). Productive and
- counterproductive job crafting: A daily diary study. Journal of Occupational Health
- Psychology, 20(4), 457–469. https://doi.org/10.1037/a0039002
- ⁷³ Gurbuz, S. (2009). Some Possible Antecedents of Military Personnel Organizational
- Citizenship Behavior. Military Psychology, 21 (2), 200–215.
- 75 https://doi.org/10.1080/08995600802574621
- ⁷⁶ Henry, L., & Wickham, H. (2019). Purr: Functional programming tools. Retrieved from
- https://CRAN.R-project.org/package=purrr
- Koopman, J., Rosen, C. C., Gabriel, A. S., Puranik, H., Johnson, R. E., & Ferris, D. L.
- 79 (2019). Why and for whom does the pressure to help hurt others? Affective and
- so cognitive mechanisms linking helping pressure to workplace deviance. Personnel
- 81 Psychology, peps.12354. https://doi.org/10.1111/peps.12354

- Müller, K., & Wickham, H. (2019). *Tibble: Simple data frames*. Retrieved from https://CRAN.R-project.org/package=tibble
- R Core Team. (2019). R: A language and environment for statistical computing. Vienna,
- Austria: R Foundation for Statistical Computing. Retrieved from
- https://www.R-project.org/
- Revelle, W. (2018). Psych: Procedures for psychological, psychometric, and personality
- research. Evanston, Illinois: Northwestern University. Retrieved from
- https://CRAN.R-project.org/package=psych
- Robison, M. K., & Unsworth, N. (2018). Pupillometry tracks fluctuations in working
- memory performance. *PsyArXiv*. https://doi.org/10/gdz63r
- Wickham, H. (2016). Ggplot2: Elegant graphics for data analysis. Springer-Verlag New
- York. Retrieved from https://ggplot2.tidyverse.org
- Wickham, H. (2017). Tidyverse: Easily install and load the 'tidyverse'. Retrieved from
- https://CRAN.R-project.org/package=tidyverse
- Wickham, H. (2019a). Forcats: Tools for working with categorical variables (factors).
- Retrieved from https://CRAN.R-project.org/package=forcats
- 98 Wickham, H. (2019b). String: Simple, consistent wrappers for common string operations.
- Retrieved from https://CRAN.R-project.org/package=stringr
- Wickham, H., François, R., Henry, L., & Müller, K. (2019). Dplyr: A grammar of data
- manipulation. Retrieved from https://CRAN.R-project.org/package=dplyr
- Wickham, H., & Henry, L. (2020). Tidyr: Tidy messy data. Retrieved from
- https://CRAN.R-project.org/package=tidyr
- Wickham, H., Hester, J., & Francois, R. (2018). Readr: Read rectangular text data.
- Retrieved from https://CRAN.R-project.org/package=readr

 $\begin{tabular}{ll} Table 1 \\ Descriptive \ statistics \ of \ study \ variables \\ \end{tabular}$

	M	SD	1	2	3
1 - Age	23.69	4.71			
2 - Motivation	-0.11	1.00	10		
3 - Pancake liking	0.00	0.92	.12	08	
4 - Zombieness	-0.06	0.63	23*	.42**	.49**

Note. * p < .05, ** p < .01, *** p < .001

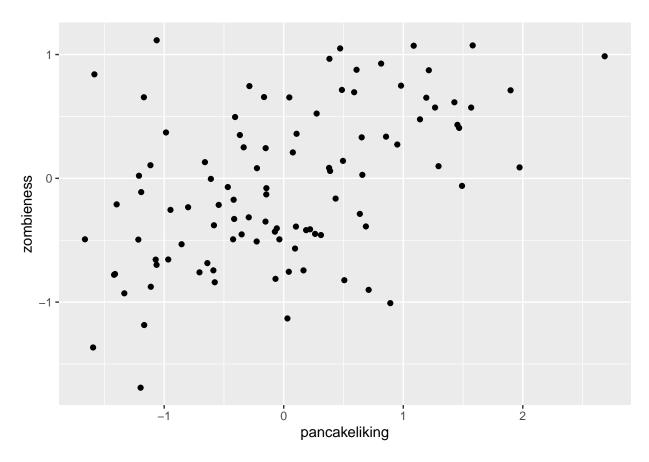


Figure 1. This plot says it all