

SSRP Report based on *Agency Beliefs Over Time and Across Cultures: Free Will Beliefs Predict Higher Job Satisfaction* by Feldman et al. (2017)*

Sami El Sabri and Liban Timir

February 13, 2024

1 Report

Using the R programming language (R Core Team (2022)) and the tidyverse (Wickham et al. (2019)), psych (William Revelle (2024)), countrycode (Arel-Bundock, Enevoldsen, and Yetman (2018)) and kableExtra (Xie (2014)) packages, three figures from *Agency Beliefs Over Time and Across Cultures: Free Will Beliefs Predict Higher Job Satisfaction* by Fraga and Miller (2022) were replicated.

Table 1, Table 2, and Table 3 suggest that the reproduction of these figures from Feldman et al. (2017) was successful.

*Code and data are available at: https://github.com/samielsabri/freewill_analysis. SSRP replication available at: <https://doi.org/10.48152/ssrp-hrv5-ck80>

Table 1: Replication of Table 1 from Feldman et al. (2017)

[!h]						
Variable	Alpha	Mean	SD	Belief in Free Will (T1)	Job Satisfaction (T1)	Job Satisfaction (T2)
Belief in Free Will (T1)	0.74	3.99	0.49	NA	NA	NA
Job Satisfaction (T1)	0.95	5.64	1.18	0.368	NA	NA
Job Satisfaction (T2)	0.93	5.74	0.99	0.192	0.425	NA

Table 2: Replication of Table 2 from Feldman et al. (2017)

[!h]								
Variable	Reliability Coefficient	Mean	SD	Job Satisfaction (T1)	Job Satisfaction (T2)	Belief in Free Will (T1)	Job Autonomy (T1)	Job Autonomy (T2)
Job Satisfaction (T1)	0.79	4.97	1.05	NA	NA	NA	NA	NA
Job Satisfaction (T2)	0.84	4.93	1.22	0.73	NA	NA	NA	NA
Belief in Free Will (T1)	0.88	4.98	0.72	0.31	0.30	NA	NA	NA
Job Autonomy (T1)	0.83	5.61	1.11	0.43	0.43	0.46	NA	NA
Job Autonomy (T2)	0.85	5.65	1.18	0.51	0.59	0.49	0.58	NA
Locus of Control	0.61	6.89	2.47	0.09	0.06	0.20	0.03	0.58
Implicit Beliefs	0.90	3.03	1.04	-0.10	-0.18	-0.19	-0.07	0.03
Self-Esteem	0.92	5.29	1.25	0.35	0.30	0.35	0.33	-0.07
Self-Efficacy	0.90	6.07	0.96	0.34	0.31	0.44	0.43	0.33
Self-Control	0.88	3.48	0.77	0.30	0.24	0.19	0.17	0.17

Table 3: Replication of Table 4 from Feldman et al. (2017)

[!h]			
Country Name	FW Mean	Correlation	n
Argentina	7.33	0.21	5058
Brazil	7.46	0.16	4380
Switzerland	7.36	0.22	3810
Chile	7.17	0.23	4645
China	7.06	0.32	5204
Czechia	6.29	0.11	2033
Spain	6.69	0.23	4927
India	6.36	0.28	7533
Japan	5.78	0.17	5212
South Korea	6.74	0.23	4471
Mexico	7.78	0.42	7726
Nigeria	6.93	0.19	4963
Poland	6.48	0.15	1858
Russia	6.25	0.19	5738
Slovakia	6.26	0.15	1526
South Africa	7.03	0.34	12933

References

- Arel-Bundock, Vincent, Nils Enevoldsen, and CJ Yetman. 2018. “Countrycode: An r Package to Convert Country Names and Country Codes.” *Journal of Open Source Software* 3 (28): 848. <https://doi.org/10.21105/joss.00848>.
- R Core Team. 2022. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D’Agostino McGowan, Romain François, Garrett Grolemond, et al. 2019. “Welcome to the tidyverse.” *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.
- William Revelle. 2024. *Psych: Procedures for Psychological, Psychometric, and Personality Research*. Evanston, Illinois: Northwestern University. <https://CRAN.R-project.org/package=psych>.
- Xie, Yihui. 2014. “Knitr: A Comprehensive Tool for Reproducible Research in R.” In *Implementing Reproducible Computational Research*, edited by Victoria Stodden, Friedrich Leisch, and Roger D. Peng. Chapman; Hall/CRC. <http://www.crcpress.com/product/isbn/9781466561595>.