

Rafael Valdece Sousa Bastos

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Place of Residence: Campinas (São Paulo) - Brazil

EDUCATION

2023 - Ongoing

Ph.D. Degree in Psychology with Emphasis on Psychological Assessment
São Francisco University

Specializations: Research Methods, Statistics, Psychometrics

Thesis Title: Caring for the Achilles' heels of psychometrics: causality and measurement level of latent variables.

Supervisor: Víthor Rosa Franco

2024 - Ongoing

Graduate Degree in Psychological Disorders in Childhood and Adolescence
Anhanguera

Specializations: Psychopathologies, Youth Mental Health, Developmental Psychology

2021 - 2023

Master's Degree in Psychology with Emphasis on Psychological Assessment
São Francisco University

Specializations: Research Methods, Statistics, Psychometrics

Thesis Title: Two theoretically sound controls for social desirability: MIMIC and Forced-Choice.

Supervisor: Felipe Valentini

2016 - 2021

B.Sc. in Psychology
Pontifical Catholic University of Rio de Janeiro

Specializations: Mental Health, Positive Psychology, Social Psychology

Thesis Title: Self-Perception of Prejudice and Discrimination Scale: Evidence of Validity and Other Psychometric Properties

Supervisor: Jean C. Natividade

BOOK PUBLICATIONS

2024

Bastos, R. V. S. (2024). Advances in Psychometric Theory and Measurement for Psychological Sciences: With Tutorials in R.
<https://doi.org/10.5281/zenodo.11094831>. Retrieved from
<https://rafavsbastos.quarto.pub/psychometrics/>

BOOK REVISIONS

- 2024 Jané, M. B. (2024). Artifact Corrections for Effect Sizes: Seeing Reality for What It Is. <https://doi.org/10.5281/zenodo.11056407> Retrieved from <https://matthewbjane.quarto.pub/artifact-corrections-for-effect-sizes/>

ACADEMIC PUBLICATIONS

Highlights

- Lie, S. O., Bastos, R. V. S., Sundgot-Borgen, C., Wisting, L., & Dahlgren, C. L. (2024). Sociocultural Attitudes Towards Appearance Questionnaire-4-Revised (SATAQ-4R): Validation in a Community Sample of Norwegian Adolescents. *Journal of Eating Disorders*, 12, 195. <https://doi.org/10.1186/s40337-024-01151-4>
- de Moraes Ferreira, M., Santiago, M. Y. T., Bastos, R., Fatori, D., Borborema, R. S., Seda, L., & Batistuzzo, M. C. (2024). Replication: The money illusion effect in a Brazilian sample and meta-analyses. *Journal of Economic Psychology*, 104, 102744.
- Sarfo, J. O., García-Santillán, A., Ansah, E. W., Adusei, H., Sarfo, J. C., Bastos, R. V. S., ... & Najafi, R. (2022). Psychometric Properties of Anxiety Towards Mathematics Scale using Samples from Four Continents. *European Journal of Contemporary Education*, 11(2), 504-514.
- Franco, V. R., Laros, J.A., Wiberg, M., & Bastos, R. V. S. (2022). How to think straight about psychometrics: Improving measurements by identifying its assumptions. *Trends in Psychology*, 1-21.
- Schoenegger, P., Tuminauskaite, I., Park, P. S., Bastos, R. V. S., & Tetlock, P. E. (2024). Wisdom of the silicon crowd: LLM ensemble prediction capabilities rival human crowd accuracy. *Science Advances*, 10(45), eadp1528.

More Publications

- de Carvalho, N. M., Bastos, R. V. S., & Natividade, J. C. (2022). Evidence of Validity and Accuracy of an Implicit Measure to Assess the Depressive Trait. *Trends in Psychology*, 1-26.
- Lopes, K. F., Bahia, V. S., Natividade, J. C., Bastos, R. V. S., Shiguti, W. A., Silva, K. E. R. D., & Souza, W. C. D. (2022). Changes in personality traits in patients with Alzheimer's Disease. *Dementia & Neuropsychologia*, 16, 187-193.
- Natividade, J. C., Londero-Santos, A., Novaes, F. C., Carvalho, N. M. D., Bastos, R. V. S., & Marot, T. A. (2021). Theory of planned behavior as predictor of social isolation by Sars-Cov-2. *Revista Psicologia e Saúde*, 13(4), 199-213.
- Bastos, R. V. S., Novaes, F. C., & Natividade, J. C. (2022). Self-Perception of Prejudice and Discrimination Scale: Evidence of Validity and Other Psychometric Properties. *Trends in Psychology*, 1-19.
- Valentini, F., Mose, L. B., Franco, G. C., Aire, J. S. O., Bastos, R. V. S., Mendes, L., Montes, A. C., Campos, L. B., Primi, R., Wells, C. (2024). Inventory of Supporting for Socio-Emotional Skills - Forced-Choice Version. *Paidéia*, 34, e3408.

Machado, G. M., Mose, L. B., Bastos, R. V. S., Freitas, C. P. P., Carvalho, L. F. (2024). Violence and bullying in the school context: a multilevel analysis of school and student variables. *Avaliação Psicológica [Psychological Evaluation]*, 23, 355-367.

Sarfo, J.O., Ansah, E. W., Apaak, D., & Bastos, R. V. S. (2023). Psychometric Properties of a Safety Culture Index among Mental Health Workers in Ghana. *Archives of Psychiatry Research: An International Journal of Psychiatry and Related Sciences*, 59(2), 277-284.

Franco, V. R., Bastos, R. V. S., Jiménez, M. (2023). Tetrad Fit Index for Factor Analysis Models. In: Virtual MathPsych/ICCM 2023, 2023, Amsterdam. Society for Mathematical Psychology. Richland, 2023. v. 1. p. 1-6.

Schönegger, P., Maier, M., & Bastos, R. V. S. (2023). Introduction and validation of the Short Antinatalism Scale (S-ANS). *Psychological Test Adaptation and Development*.

Franco, V. R., Wiberg, M., Bastos, R. V. S. (2023). Nonparametric Item Response Models: A Comparison on Recovering True Scores. *Psico-USF*, 28, 685-696.

Franco, V. R., Laros, J. A., & Bastos, R. V. S. (2022). Theoretical and practical foundations of Mokken scale analysis in psychology. *Paidéia (Ribeirão Preto)*, 32.

dos Santos, G. G. B., Soares, A. B., & Bastos, R. V. S. (2021). Effects of social skills training on school climate. *Psychology: theory and practice*, 23(2), 1-22.

Aquino, S. D., Marot, T. A., Bastos, R. V. S., & Natividade, J. C. (2023). Evidências de Validade do Questionário de Estilos de Humor (HSQ) no Brasil [*Evidence of Validity of the Humor Styles Questionnaire*]. *Avaliação Psicológica [Psychological Assessment]*, 22(2), 174-184.

Sarfo, J. O., García-Santillán, A., Bastos, R. V. S., & Attafuah, P. Y. A. (2022). Smartphone Addiction Scale-Short Version (SAS-SV) among Mexican Adolescents: A Network Psychometric Approach. *Медиаобразование*, (3), 481-490.

UPCOMING PUBLICATIONS

2024 Borborema, R., Ferreira, M. M., Martins, A. L. S., Bastos, R. V. S., Feldman, G., Fatori, D., Seda, L., & Batistuzzo, M. (2024). Inaction Inertia Effect: Foregoing Opportunities as a Consequence of an Initial Failure to Act: a Replication-Extension Study in the Brazilian Population. Manuscript Accepted for Publication in *Meta-Psychology*.

EMPLOYMENT HISTORY

2023 - Present

São Francisco University

PhD position funded by CAPES (88887.822435/2023-00) - “Caring for the Achilles' heels of psychometrics: causality and measurement level of latent variables”. Conducted independent research and assisted with teaching.

- 2021-2022 **Statistical Consultant**
Quantitative(hy)
- Co-creator and consultant in quantitative research at the startup Quantitativa(mente). The startup helped people do quantitative research. The services performed were: planning and guiding scientific research; data analysis and reporting; and scientific writing.
- 2021-2021 **Quantitative Researcher and Psychometrician**
Laboratory of Studies and Research in Social Economy
- Construction, refinement, and analysis of data on the instruments' properties. Elaboration and design of new studies in the area of social economics and psychometrics
- 2017-2020 **Research Assistant**
Pontifical Catholic University of Rio de Janeiro
- FAPERJ Research Assistant at the Social Psychology Research Laboratory. Task: Development of an implicit test to assess the five major personality factors.
 - PIBIC Scholarship Research Assistant at the Social Psychology Research Laboratory. Task: Development of an instrument to assess characteristics related to sexuality.

TEACHING EXPERIENCE

- 2024 **Massive Open Online Course (MOOC): Psychometrics and Quantitative Methods Bootcamp**
<https://www.udemy.com/course/psicometria/?referralCode=C40C721BB97AEA36D8AC>
 This comprehensive course in Brazilian-Portuguese about psychometrics and quantitative methods offers fundamentals to advanced techniques, including measurement theories and item analysis. Participants will learn to use modern tools, such as R software, to analyze real data and develop valid and reliable measurement instruments. Ideal for psychology students and professionals, the course combines theory and practice to prepare students to conduct rigorous research and apply quantitative methods in psychological assessment.
- 2021-2021 **Synchronous Online Course Teacher**
Sympla
- Tutoring of the course Quantitative Data Analysis: Theory and Practice for Psychology, Social and Health Sciences.
- 2017-2022 **Teaching Assistant**
São Francisco University (USF)/ Pontifical Catholic University of Rio de Janeiro (PUC-Rio)
- Quantitative Methods and Data Analysis class (USF; one lecture in the semester, support for discussions on all other lectures, and student hours)
 - Undergraduate Thesis Supervision (USF; two bachelor projects supervised)
 - Assistant in the Psychometrics class (PUC-Rio; one lecture in the semester, student hours, and supervision)
 - Assistant in the Quantitative Methods class (PUC-Rio; student hours and teaching practical applications of quantitative methods)
 - Assistant in the Social Psychology class (PUC-Rio; student hours)
 - Assistant in the Psychological Assessment class (PUC-Rio; student hours)

SCHOLARSHIPS AND AWARDS

- 2023-2026 **Ph.D. Research Scholarship**
Granted by Coordination of High Education Staff Improvement (CAPES)
- 2023 **Best Research Award**
Granted by the Ayrton Senna Institute
<https://institutoayrtonsenna.org.br/vencedores-hackathon/>
- 2021-2023 **Master of Science Research Scholarship**
Granted by Coordination of High Education Staff Improvement (CAPES)

COLLABORATIVE PROJECTS

- 2023-Present **Advancing Big-team Reproducible Science through Increased Representation (ABRIR).**
Rafael Bastos is an ABRIR collaborator and consultant for statistics and psychometrics. <https://abrirpsy.org/>

MEDIA APPEARANCES

- 2024 **Psych #rstats Club YouTube Workshop**
Confirmatory Factor Analysis In R
<https://youtu.be/lby4lQDXoCA?si=mQVW5qSZVq7lY-5J>

SKILLS

- Teaching and Research Synchronous and Asynchronous Teaching, Research Design and Evaluation, Quantitative Methods, Data Analysis, Data Visualization, Written and Oral Research Communication, Open-Science.
- Programming Languages and others R (Expert), Python (Intermediate).
- Developer Tools RStudio, GitHub, Shiny, Quarto.
- Statistical Software SPSS, JASP, JAMOVI, Factor, MPlus, PSPP.
- Other Bilingual Communication (English and Portuguese), Software Documentation., and Openness to Learn Other Languages.

REFERENCES

- Prof. Peder M. Isager - Oslo New University College - Psychology Department
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