

# Marwin Machay Indio do Brasil do Carmo

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## EDUCATION

**University of São Paulo**, M.Sc. Psychiatry 2021–current

*Area of Study:* Sleep-related cognitions, Quantitative Methods, Psychometrics

*Advisor:* Renatha El-Rafihi Ferreira, Ph.D.

*Research goal:* Cross-cultural adaptation of the *Dysfunctional Beliefs About Sleep* and *Sleep and Action Questionnaire*. Explore the psychometric properties of both measures utilizing factor analysis and item response theory. Explore associations between sleep related cognitions and insomnia with network analysis.

**Rio de Janeiro State University**, B.S. Psychology (with honours) 2014–2019

**Federal Institute of Education, Science and Technology**, B.Tech. Chemical Processes 2008–2013

## EXPERIENCE

**Psicometria Online Academy** May 2022–current  
*Teaching Assistant* Brazil

Provided support to students' questions in topics such as general linear models, multivariate statistics, structural equation modeling, factor analysis, item response theory and research methods.

**PsicoDados** January 2022–current  
*Statistical Consultant* Brazil

Provided statistical consultancy and wrote reports of results in addition to support with executing research and analyses.

**Psychology of Human Development Laboratory - UERJ** August 2019–August 2020  
*Research Assistant* Rio de Janeiro, Brazil

- Conducted a systematic review about Brazilian research on social skills training with people with disabilities. Paper submitted to a peer reviewed journal.
- Performed statistical analysis on research data following a social skills training program with children with autism syndrome disorder.
- Wrote journal articles and conference presentations.
- Delivered introductory statistics workshops to laboratory members.
- Collected and maintained record of laboratory professors' publications and students' theses and dissertations to feed the laboratory webpage.

**Socio-Emotional Development, Inclusion and Social Skills Laboratory - UERJ** July 2017–July 2019  
*Undergraduate Research Project* Rio de Janeiro, Brazil

- Conducted Parental Social Skills Training.
- Provided support for data collection and management, analysis, and manuscript writing.
- Teaching Assistant at Psychology and Disabilities class.

**Biodegradable Polymer Research Laboratory - UFRJ** June 2011–March 2013  
*Undergraduate Research Project* Rio de Janeiro, Brazil

## FELLOWSHIPS AND FUNDING

**Sao Paulo Research Foundation (FAPESP)** June 2021–current  
*Master's Fellowship* Department of Psychiatry, FMUSP

- Adaptação Transcultural e Validação das Escalas Crenças e Atitudes Disfuncionais Sobre o Sono e Questionário de Aceitação dos Problemas de Sono: R\$ 55,594.44

**Rio de Janeiro Research Foundation (FAPERJ)** September 2019–September 2020  
*Training and Technical Qualification* Department of Cognitive and Developmental Psychology, UERJ

- Organização do Laboratório de Psicologia do Desenvolvimento Humano: R\$ 10,500.00

- Grupo de Orientação Familiar – uma abordagem integrativa de psicoeducação: R\$ 9,600.00

## PUBLICATIONS

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### Journal Articles

1. Quiterio, P. L., Nunes, L. R. O. P., Camelo, B. L., Silva, J. P., & **Carmo, M. M. I. B.** (2021). Promoção das Habilidades Sociais de Futuros Professores com foco na Educação Inclusiva. *Estudos e Pesquisa em Psicologia*. <https://doi.org/10.12957/epp.2021.61060>
2. Quiterio, P. L., Leme, V. B. R., **Carmo, M. M. I. B.**, Silva, J. P., & Camelo, B. L. (2021). Programa de orientação familiar desenvolvido no serviço de psicologia aplicada de uma universidade pública. *Psicologia Clínica*. <http://dx.doi.org/10.33208/PC1980-5438v0033n01A06>
3. **Carmo, M. M. I. B.**, Gilla, C. G., & Quiterio, P. L. (2020). Um estudo sobre a inclusão de pessoas com deficiência no mercado de trabalho brasileiro. *Interação em Psicologia*. <http://dx.doi.org/10.5380/psi.v24i1.59972>
4. Ferreira, W. H., **Carmo, M. M. I. B.**, Silva, A. L. N., & Andrade, C. T. (2014). Effect of structure and viscosity of the components on some properties of starch-rich hybrid blends. *Carbohydrate polymers*. <https://doi.org/10.1016/j.carbpol.2014.10.018>

## SELECTED PRESENTATIONS

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1. **Carmo, M. M. I. B.**. (2022). Understanding model selection bias via simulation. VI International Seminar on Statistics with R (Virtual). [slides]
2. **Carmo, M. M. I. B.**, & Rafihi-Ferreira, R. (2022). A network approach of Insomnia and Dysfunctional Beliefs and Attitudes About Sleep. VII Congresso Clínica Psiquiátrica, São Paulo, Brazil. [slides]
3. **Carmo, M. M. I. B.**, & Rafihi-Ferreira, R. (2022). Network structure of acceptance of sleep difficulties and insomnia. VII Congresso Clínica Psiquiátrica, São Paulo, Brazil. [poster]
4. **Carmo, M. M. I. B.**, & Rafihi-Ferreira, R. (2021). The association between sleep-related cognitions, psychological flexibility, and insomnia symptoms. XVIII Congresso Brasileiro de Sono, São Paulo, Brazil. [poster]
5. Conway, B. A., **Carmo, M. M. I. B.**, Toscanini, A. C., Hasan, R., & Rafihi-Ferreira, R. (2021). Personality Traits in Adults with Chronic Insomnia. XVIII Congresso Brasileiro de Sono, São Paulo, Brazil.
6. Cunha, R. R. B. , Trigo, L. O., **Carmo, M. M. I. B.**, Rafihi-Ferreira, R., & Toscanini, A. C. (2021). Chronotype Influence on the Sleep Pattern and Physical/Academic Performance of Medical Students in the State of São Paulo, Brazil. XVIII Congresso Brasileiro de Sono, São Paulo, Brazil.
7. Trigo, L. O., Cunha, R. R. B. , **Carmo, M. M. I. B.**, Rafihi-Ferreira, R., & Toscanini, A. C. (2021). Sleep Pattern, Cellphone Use and Grade Point Average in São Paulo Medical Students. XVIII Congresso Brasileiro de Sono, São Paulo, Brazil.
8. Silva, D. A., Souza, J. F., **Carmo, M. M. I. B.**, Quiterio, P. L. (2021). Programas de orientação familiar: intervenções com populações clínicas e não clínicas. 51ª Reunião Anual da Sociedade Brasileira de Psicologia, Rio de Janeiro, Brazil.
9. **Carmo, M. M. I. B.**, Quiterio, P. L., Silva, J. P., & Camelo, B. L. (2019) Efeitos de Uma Intervenção de Orientação Familiar em Contexto Preventivo e Remediativo. *VII Seminário Internacional de Habilidades Sociais*, Maranhão, Brazil.
10. Silva, J. P., Quiterio, P. L., **Carmo, M. M. I. B.**, & Souza, A. B. M. (2019) A Importância do Desenvolvimento de Competências Socioemocionais em Pais e Crianças. *VII Seminário Internacional de Habilidades Sociais*, Maranhão, Brazil.
11. **Carmo, M. M. I. B.**, Quiterio, P. L. (2019). Grupo de Orientação Familiar: uma abordagem integrativa de psicoeducação. 29ª UERJ Sem Muros, Rio de Janeiro, Brazil.

12. **Carmo, M. M. I. B.**, Gilla, C. G., & Quiterio, P. L. (2018). Um estudo sobre a inclusão de pessoas com deficiência no mercado de trabalho brasileiro. 12<sup>a</sup> Mostra Regional de Práticas em Psicologia, Rio de Janeiro, Brazil.
13. **Carmo, M. M. I. B.**, Camelo, B. L., Silva, J. P., & Quiterio, P. L. (2018). Avaliação de um Grupo de Orientação Familiar. VII Congresso Brasileiro de Terapia Cognitiva da Infância e Adolescência (CONCRIAD), Bahia, Brazil.

## HONORS & AWARDS

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| 1. VII Congresso Clínica Psiquiátrica, Best Oral Presentation Award                    | May 2022      |
| 2. XVIII Congresso Brasileiro de Sono, Poster recipient of Top Mark Award              | December 2021 |
| 3. VII Seminário Internacional de Habilidades Sociais, 3rd place for Best Poster Award | December 2019 |
| 4. VII CONCRIAD, 3rd place for Best Poster Award                                       | November 2018 |

## SKILLS

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### *Programming*

- R: exploratory data analysis, data cleaning, data visualization, statistical data analyses, programmatic reporting (RMarkdown), webscraping, Shiny apps development, dashboards.
- Python: exploratory data analysis, data cleaning, data visualization.

### *Tools:*

- Data collection and management: REDCap
- Version control: Git
- Reference management: Zotero
- Statistical softwares: R, SPSS, JASP, JAMOV
- Reporting: RMarkdown, L<sup>A</sup>T<sub>E</sub>X(familiar)

## LEADERSHIP

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### *Measuring Psychology Study Goup and Community*

February 2022–current

#### *Founder and facilitator*

- Organized meetings and led study sessions on measurement theory in psychology
  - Orchestrated invited presentations by Dr. Derek C. Briggs, Dr. Laura F. Bringmann, and Dr. Markus I. Eronen
  - Led article discussions of concepts such as measurement in science, nature of measurement, and theories of measurement

## RELEVANT COURSEWORK

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### *Mathematics & Statistics*

Multivariable Calculus, Linear Algebra, Probability Theory, Machine Learning, Intermediate Statistical Methods, Structural Equation Modeling, Introduction to Bayesian Data Analysis.

### *Research Methods*

Research Methods in Psychotherapy, Epidemiological Methods in Psychiatry, Scientific Writing.

## BLOGS

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**Carmo, M. M. I. B.** (2022). Simulating post selection inference. Retrievable from <https://marwincarmo.github.io/posts/2021-12-20-model-selection-bias/>

**Carmo, M. M. I. B.** (2021). Regression Artifact - Re-running Farmus et. al (2019). Retrievable from <https://marwincarmo.github.io/posts/2021-11-04-simulating-regression-artifact/>

## SOFTWARE DEVELOPMENT

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**Model selection app.** A Shiny app designed for performing simulations of statistical inferences after model selection procedures. Its purpose is to illustrate the problems that arise when model selection, parameters estimation and statistical inferences are undertaken with the same data set. [[App](#)] [[code](#)]