

# 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  
*Student support* Brazil  
Answer students' questions to lectures videos related to univariate and multivariate data analysis, structural equation modeling, 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.
  - Led on data collection, management and analysis.
  - Wrote journal articles and conference presentations.
  - 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 Student Project* Rio de Janeiro, Brazil
- Conducted Parental Social Skills Training
  - Provided support for data collection and management, analysis, and manuscript writing.
- Biodegradable Polymer Research Laboratory - UFRJ** June 2011–March 2013  
*Undergraduate Student Project* Rio de Janeiro, Brazil

## Honors Awards and Funding

### RESEARCH FUNDING

- Sao Paulo Research Foundation (FAPESP)** June 2021
- Title: Adaptação Transcultural e Validação das Escalas Crenças e Atitudes Disfuncionais Sobre o Sono e Questionário de Aceitação dos Problemas de Sono
  - Funding: R\$ 55,594.44

## 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*.
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*.
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*.
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*.

## 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. [[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. [[slides](#)]
3. **Carmo, M. M. I. B.**, & Rafihi-Ferreira, R. (2022). Network structure of acceptance of sleep difficulties and insomnia. VII Congresso Clínica Psiquiátrica. [[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. 12ª 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, Bahia, Brazil.

## HONORS & AWARDS

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|--|---------------|
| 1. VII Congresso Clínica Psiquiátrica, Best Oral Presentation Award                    | May 2022      |
| 2. 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

### *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)

### *Statistics Training*

## LEADERSHIP

### [Measuring Psychology Study Group and Community](#)

February 2022 –

#### *Founder and organizer*

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

## SOFTWARE DEVELOPMENT

Carmo, M. M. I. B., Williams, D. R. (2021). *Model selection app*. Retrieval from <https://marwin.shinyapps.io/model-selection-app/>

## RELEVANT COURSEWORK

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### *Mathematics, Statistics & Computer Science*

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

## BLOGS

Carmo, M. M. I. B. (2022). Simulating post selection inference. Retrieval 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). Retrieval from <https://marwincarmo.github.io/posts/2021-11-04-simulating-regression-artifact/>