

BRUNO BRAGA MONTEZANO

PERSONAL INFORMATION

Born in Brazil

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WORK AND SCHOLARSHIP EXPERIENCE

2022–Present Master's Fellow, FEDERAL UNIVERSITY OF RIO GRANDE DO SUL — Porto Alegre

*Federal University
of Rio Grande do
Sul*

Activities: Quantitative data analysis (including machine learning techniques); Scientific writing (articles, grants, conference abstracts); Academic collaborations; Statistical programming (R and Python); Teaching experience in the Medical Psychology I course.
Funding agency: Coordination for the Improvement of Higher Education Personnel (CAPES)
Reference: Ives Cavalcante Passos · ipassos@hcpa.edu.br

2019–2021 Scientific Initiation Scholarship, CATHOLIC UNIVERSITY OF PELOTAS — Pelotas

*Catholic
University of
Pelotas*

Activities: Data backup (survey data from tablets and actigraphy data); Data cleaning; Data wrangling; Data analysis (inferential statistics, machine learning algorithms and psychometrics); Diagnostic interviews (focus on mood disorders); Management and application of survey/clinical screening tools (MINI-PLUS, FAST, COBRA, BRIAN, SF-36, SF-12, CTQ, SRQ-20, ASSIST, YMRS); Scientific writing; Scientific conference presentations.
Funding agency: National Council for Scientific and Technological Development (CNPq)
Reference: Karen Jansen · karen.jansen@ucpel.edu.br

2019–2020 Intern in People Management, VG CONSULTORES ASSOCIADOS — Pelotas

*VG Consultores
Associados*

Activities: Team training; Preparation of career plans; Organizational climate surveys; Create graphic materials (e.g. slide presentation, poster, birthday card, etc); Feedback interviews.

2018–2019 Scientific Initiation Scholarship, CATHOLIC UNIVERSITY OF PELOTAS — Pelotas

*Catholic
University of
Pelotas*

Activities: Quantitative data analysis (cohort and actigraphy data); Statistical programming (R programming language and IBM SPSS software); Report writing (structured documents, websites, dashboards, slideshows); Scientific writing; Presentations at scientific conferences.
Funding agency: Catholic University of Pelotas
Reference: Karen Jansen · karen.jansen@ucpel.edu.br

EDUCATION

*Master of Science
in Psychiatry and
Behavioral
Sciences*

2022–Present Federal University of Rio Grande do Sul,
Porto Alegre, Rio Grande do Sul, Brazil

School: Medical School

Thesis: *Predicting bipolar disorder incidence in young adults using gradient boosting: a 5-year follow-up study*

Description: The thesis aims to predict incidence of bipolar disorder at the individual level in young adults using state-of-the-art techniques for tabular data based on sociodemographic, clinical and environmental features.

Advisor: Dr. Ives Cavalcante Passos

Co-advisor: Dr. Karen Jansen

*Bachelor of Science
in Psychology*

2016–2021 Catholic University of Pelotas, Pelotas, Rio
Grande do Sul, Brazil

GPA: 9.23 · School: Psychology

Final paper: *Associations between general sleep quality and measures of functioning and cognition in subjects recently diagnosed with bipolar disorder*

Description: This final paper aimed to assess the association between sleep quality and the functional and cognitive impairment in subjects that recently converted to bipolar disorder, subjects with past major depressive disorder (MDD) and subjects with recurrent MDD.

Advisor: Dr. Karen Jansen

*Computer
Technician*

2013–2015 Federal Institute of Education, Science and
Technology of Rio Grande do Sul, Ibirubá, Rio Grande do Sul,
Brazil

School: Informatics

Description: The course aims to train professionals to work in the area of Information and Communication Technology. Its activities permeate software development, operating systems and database management.

Advisor: Prof. Roger Luis Hoff Lavarda

PUBLICATIONS

*Psychiatry
Research
Communications*

August 2022 Personality disorders as predictors for the
conversion from major depressive disorder to bipolar disorder: A
prospective cohort study

The present study aimed to assess whether personality traits in individuals with major depressive disorder can predict the conversion to bipolar disorder.

Authors: Gisele Bartz de Ávila, **Bruno Braga Montezano**, Luciano Dias de Mattos Souza, Taiane de Azevedo Cardoso, Ricardo Azevedo da Silva, Thaíse Campos Mondin, Fernanda Pedrotti Moreira, Karen Jansen

*Preprint at
MedRxiv*

July 2022 Associations between general sleep quality
and measures of functioning and cognition in subjects recently
diagnosed with bipolar disorder

The present study aims to assess the association between sleep quality and the functional and cognitive impairment in subjects that recently converted to bipolar disorder, subjects with past major depressive disorder (MDD) and subjects with recurrent MDD.

Authors: **Bruno Braga Montezano**, Taiane de Azevedo Cardoso, Luciano Dias de Mattos Souza, Fernanda Pedrotti Moreira, Thaíse Campos Mondin, Ricardo Azevedo da Silva, Karen Jansen

*Psychiatry
Research
Communications*

June 2022 Predicting 3-year persistent or recurrent major depressive episode using machine learning techniques

The present study aimed to predict recurrent or persistent depressive episodes, in addition to predicting severe recurrent or persistent depressive episodes using elastic net regression for classification.

Authors: Amanda Rodrigues Fialho, **Bruno Braga Montezano**, Pedro Lemos Ballester, Taiane de Azevedo Cardoso, Thaíse Campos Mondin, Fernanda Pedrotti Moreira, Luciano Dias de Mattos Souza, Ricardo Azevedo da Silva, Karen Jansen

*Trends in
Psychiatry and
Psychotherapy*

December 2021 Sleep alterations as a predictor of bipolar disorder among offspring of parents with bipolar disorder: a systematic review and meta-analysis

The present study aimed to describe changes in sleep parameters among offspring of parents with BD when compared to offspring of controls and to identify if changes in parameters and quality of sleep predict the onset of BD among these individuals.

Authors: Kyara Rodrigues de Aguiar, Mariana Dias Cabelleira, **Bruno Braga Montezano**, Karen Jansen, Taiane de Azevedo Cardoso

COMPUTER SKILLS

<i>Basic</i>	Julia programming language
<i>Intermediate</i>	Python (machine learning and data science skills in general), \LaTeX , Linux systems, Shell scripting
<i>Advanced</i>	R programming language (data science skills, package development, machine learning pipelines, data cleaning, etc)

OTHER INFORMATION

<i>Awards</i>	2022 · Young Researcher Award — Congress on Brain, Behavior and Emotions 2021 · 3rd place in Best ePoster of the XIII Brazilian Congress of Cognitive Therapies — Brazilian Federation of Cognitive Therapies 2019 · Highlighted presentation in the Human Sciences area at the 28th Scientific Initiation Congress — Federal University of Rio Grande
<i>Languages</i>	PORTUGUESE · Mothertongue ENGLISH · Fluent (reading, writing and speaking) — in 2015, a month was spent in the United States on a cultural exchange to take English classes at Eckerd College, St. Petersburg, Florida. SPANISH · Basic (simple words and phrases only)
<i>Interests</i>	Magic cubes · Chess · Physical exercises · Computer programming

September 22, 2022