MSci GRASIELE ROMANZINI-BEZERRA

Research Assistant

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PROFILE

Grasiele Romanzini Bezerra currently lives in Leeds, England and have legal right to live and work in UK. She holds a master degree in physics (2023) from the Brazilian Center for Research in Physics (CBPF), Brazil, and a bachelor degree in Physics (2020) from the Federal University of Rio Grande do Sul (UFRGS), Brazil. Besides having an advanced knowledge in data science and excellent computational skills, she also has 5 years experience in analyse scientific and social data using a varied range of programming languages, such as python, R and C.

EDUCATION

Master in Cosmology: Brazilian Center for Research in Physics (CBPF), Rio de Janeiro, Brazil (2023).

BSc in Physics: Physics Institute, Federal University of Rio Grande do Sul, Brazil (2020).

RESEARCH EXPERIENCE

Research Assistant   University of Leeds, Leeds, England

- **Project:** Constraining Uncertainty of Multi-decadal Climate Projections   Aug 2023 - Ongoing
- **Supervisor:** Dr. Amanda Maycock
- Analysing CO_2 Emissions' Impact on Stratospheric Temperature.

Master Student   Brazilian Center for Research in Physics, Rio de Janeiro, Brazil

- **Project:** Galaxy Dynamics and Modified Gravity from Einstein Rings and Velocity Dispersion   Aug 2021 - Jul 2023
- **Supervisor:** Dr. Martin Makler
- **Co-Supervisor:** Dr. Cristina Furlanetto
- Apply Bayesian analyses and hypothesis test to lensing galaxies data.

Scientific Initiation   Physics Institute, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil

- **Project**: Testing the Parameterized Post-Newtonian Gravity with Strong Gravitational Lensing   Jan 2019 - Feb 2020
- **Advisor**: Dr. Cristina Furlanetto
- Apply likelihood inference to data of 103 lensing galaxies from 4 different surveys.

Internship   Physics Institute, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil

- **Project**: Gender Diversity in Science   Jun 2015 - Jul 2019
- **Advisor**: Dr. Marcia C. B. Barbosa
- Mining and analyse the data of 5 thousand Brazilian scientist to gain insights on gender bias.

PUBLICATIONS

Bezerra, Grasiele Romanzini, Daniela Lazzaro, Aruquia Peixoto, Maria Margaret Lopes, C Andrade, H. J. N. Lopes, and Márcia C. Barbosa (2019). "Female Researchers in Science in Brazil: the Scissors Effect". In: *La Brecha de Género en Matemática, Computación y Ciencias Naturales*. Edited by Lilia Meza Montes and Silvina Ponce Dawson. Mexican Physic Society, pages 55–67.

Ferrari, Nathália C, Raquel Martell, Daniela H Okido, **Grasiele Romanzini**, Viviane Magnan, Márcia C Barbosa, and Carolina Brito (2018). "Geographic and gender diversity in the Brazilian Academy of Sciences". In: *Anais da Academia Brasileira de Ciências* 90.2, pages 2543–2552.

Bezerra, Grasiele and Marcia C Barbosa (2016). "Mulheres na física no brasil". In: *SBF Sociedade Brasileira de Física – 50 anos – 1966 – 2016 (Book of 50 years of the Brazilian physic society)*. Edited by Alicia Ivanissevich and Cássio Leite Vieira. Brazilian Physic Society, pages 132–135.

EVENTS

Poster Presentation - Impact of Galaxy Dynamics on Modified Gravity Constraints from Strong Lensing Systems: IAUS 381: Strong gravitational lensing in the era of Big Data, Jun 2023.

Oral Presentation - Galaxy Dynamics and Modified Gravity from Velocity Dispersion in Einstein Rings Systems: As Astrocientistas II: Brazilian Meeting of Girls and Women in Astrophysics, Gravitation, and Cosmology, Feb 2023.

Oral Presentation - Testing Gravity with Einstein Rings and Velocity Dispersion: II Workshop on Lensing by Galaxies and Clusters, Aug 2022.

Flash Talk - Galaxy Dynamics and Modified Gravity from Velocity Dispersion in E-Rings Systems: Cosmology from Home 2022, Jul 2022.

Oral Presentation - Testing the Parameterized Post-Newtonian Gravity with Strong Gravitational Lensing: First Workshop on Lensing by Galaxies and Clusters, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil. Oct 2019.

Poster Presentation - Geographic and Gender Diversity in the Brazilian Academy of Sciences: IX Workshop in Complexity of Water and Other Liquids, Federal University of Pelotas, UFPel, Pelotas, RS, Brazil. Nov 2018.

SCHOOLS

Winter school: XIV CBPF's winter school, Brazilian Center for Research in Physics (CBPF), Rio de Janeiro, Brazil. Jul 2023.

Summer School: Astroinformatics II, Center for Astrostatistics, The Pennsylvania State University, USA. Jun 2022

Summer School: Statistics for Astronomers XVII, Center for Astrostatistics, The Pennsylvania State University, USA. Jun 2022

PROFESSIONAL TRAINING

Jul 2021 - Professional Certificate in Data Science, Harvard.

Mar 2021 - MOOC - Privacy Law and Data Protection, University of Pennsylvania.

Aug 2020 - MOOC - Data-driven Astronomy, The University of Sydney.

Grasiele R. Bezerra

I hereby certify that all the information provided in this CV is true and correct.
Referees would be available upon your request.