Bruna Araujo

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Currently: PhD Student
Universidade Federal do Rio Grande do Sul, Brazil

Gender: Female
Nationality: Brazilian
Date of Birth: June 27, 1998

Education

2025 – now	**PhD Student** at Universidade Federal do Rio Grande do Sul (UFRGS), Brazil. **Advisor:** Thaisa Storchi Bergmann
2023 – 2025	Research Student at Kavli IPMU, The University of Tokyo, Japan. **Advisor:** John Silverman
2017 – 2022	**B.Sc in Physics:** Universidade Federal do Piauí (UFPI), Brazil. Grade Average: 9.26 out of 10.0
2013 – 2016	High School and Technical Education: Instituto Federal do Piauí (IFPI), Brazil. Grade Average: 9.3 out of 10.0

Research Experience

2023 – 2025	**AGNs and their host galaxies** Advisor: Prof. Dr John Silverman The University of Tokyo, Japan
2019 – 2023	**The relation between the environment and nuclear activity in nearby QSOs** Advisor: Prof. Dr Thaisa Storchi Bergmann Universidade Federal do Rio Grande do Sul (UFRGS), Brazil
2017 – 2019	**Supercondutivity in the Hole-Doped Rashba-Hubbard Model** Advisor: Prof. Dr José Pimentel de Lima Universidade Federal do Piauí (UFPI), Brazil

Internship

Sep – Nov (2021)	**Predicting the properties and environment of high-redshift quasars with cosmological simulations** Advisor: Dr Melanie Habouzit Max-Planck Institute for Astronomy (MPIA), Heidelberg, Germany.

Scientific Publications

– Araujo, B., et al. (2023). **Nuclear activity in $z < 0.3$ QSO 2's mainly triggered by galaxy mergers**. MNRAS, vol. 522, no. 4, pp. 5165–5179. doi:10.1093/mnras/stad1340.

Conference Proceedings

– Araujo, B., Storchi-Bergmann, T., & Rembold, S. (2020). **The relation between the environment and nuclear activity in nearby QSOs: Defining a control sample**. Proceedings of the International Astronomical Union, 15(S359), 339-341. doi:10.1017/S1743921320002094

Scholarships and Awards

2023 – 2025	**Monbukagakusho (MEXT) Research Scholarship** Embassy recommended - Japanese Government Scholarship
2017 – 2021	**Instituto TIM - OBMEP Scholarship** Scholarship that provides financial support to talented young people to attend the University. (only 50 students are awarded with this scholarship per year in Brazil)
2016	Silver Medal at OBMEP (Brazilian Public School Math Olympics)
2015	Bronze Medal at OBMEP (Brazilian Public School Math Olympics)
2014	Bronze Medal at OBMEP (Brazilian Public School Math Olympics)

Presentations

– "The relation between the environment and nuclear activity in nearby QSOs." *IX Workshop da Pós-Graduação em Física*, Teresina (Brazil), 19-20 November 2020.

– "The relation between the environment and nuclear activity in nearby QSOs: defining a control sample." *IAU Symposium 359: Galaxy Evolution and Feedback Across Different Environments*, Bento Gonçalves (Brazil), 2-6 March 2020.

Schools and Meetings

– Winter School of 2020: Astronomy and Astrophysics (ON), Rio de Janeiro, Brazil, July and August 2020. (held on-line)

– IAU Symposium 359: Galaxy Evolution and Feedback Across Different Environments, Bento Gonçalves, Brazil, 2-6 March 2020.

– Summer School on Physics (USP), São Paulo, Brazil, 11-15 February 2019

Languages and Computing Skills

– Python

– LaTeX

– Portuguese (native speaker)

– English (fluent)

– Japanese (beginner)

Extra Activities

2018 – 2020	Assistant at the National Science Olympics - ONC
2018 – 2019	Undergraduate Teaching Assistant in Physics
2014 – 2016	High School Teaching Assistant in Physics and Mathematics

Reference

– Prof. Dr John Silverman (Department of Astronomy - UTokyo): john.silverman@ipmu.jp

– Prof. Dr Thaisa Storchi Bergmann (Institute of Physics - UFRGS): thaisa@ufrgs.br