

Uendert Andrade

BASICS

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[[Inspire](#)]

RESEARCH INTERESTS

Theoretical cosmology, computational cosmology, foundations of cosmology, cosmological principle, dark energy, dark matter, cosmological perturbations, extensions of standard cosmology, cosmography, bayesian analysis, MCMC samplers

RESEARCH POSITIONS

University of Michigan: Leinweber Fellow

Ann Arbor, USA

Sep/2022 - current

Observatório Nacional: Postdoctoral Fellow

Rio de Janeiro, Brazil

Dec/2021 - Aug/2022

EDUCATION

Observatório Nacional: Ph.D. in Astronomy

Rio de Janeiro, Brazil

Supervisor: **Jailson Alcaniz**

Mar/2018–Nov/2021

Thesis title: *Probing the fundamental hypotheses of the standard cosmology*

– **University of Michigan:** Visiting Scholar

Ann Arbor, US

– Supervisor: **Dragan Huterer**

Sep/2019–Feb/2020

Observatório Nacional: M.Sc. in Astronomy

Rio de Janeiro, Brazil

Supervisor: **Jailson Alcaniz**

Mar/2016–Feb/2018

Dissertation title: *Testing the cosmological isotropy*

UFRRJ: B.S. in Physics

Seropédica, Brazil

Federal Rural University of Rio de Janeiro, Brazil

Feb/2011–Jan/2016

PUBLICATIONS

- [1] **U. Andrade**, D. Anbajagane, R. von Marttens, D. Huterer, and J. Alcaniz, “A test of the standard cosmological model with geometry and growth”, *JCAP*, vol. 11, p. 014, 2021. arXiv: [2107.07538 \[astro-ph.CO\]](#).
- [2] S. Bonoli *et al.*, “The miniJPAS survey: A preview of the Universe in 56 colors”, *Astron. Astrophys.*, vol. 653, A31, 2021. arXiv: [2007.01910 \[astro-ph.CO\]](#).
- [3] R. S. Gonçalves, G. C. Carvalho, **U. Andrade**, C. A. P. Bengaly, J. C. Carvalho, and J. Alcaniz, “Measuring the cosmic homogeneity scale with SDSS-IV DR16 Quasars”, *JCAP*, vol. 03, p. 029, 2021. arXiv: [2010.06635 \[astro-ph.CO\]](#).

- [4] **U. Andrade**, C. A. P. Bengaly, J. S. Alcaniz, and S. Capozziello, “Revisiting the statistical isotropy of GRB sky distribution”, *Mon. Not. Roy. Astron. Soc.*, vol. 490, no. 4, pp. 4481–4488, 2019. arXiv: [1905.08864 \[astro-ph.CO\]](#).
- [5] C. A. P. Bengaly, **U. Andrade**, and J. S. Alcaniz, “How does an incomplete sky coverage affect the Hubble Constant variance?”, *Eur. Phys. J. C*, vol. 79, no. 9, p. 768, 2019. arXiv: [1810.04966 \[astro-ph.CO\]](#).
- [6] **U. Andrade**, C. A. P. Bengaly, J. S. Alcaniz, and B. Santos, “Isotropy of low redshift type Ia Supernovae: A Bayesian analysis”, *Phys. Rev. D*, vol. 97, no. 8, p. 083518, 2018. arXiv: [1711.10536 \[astro-ph.CO\]](#).
- [7] **U. Andrade**, C. A. P. Bengaly, B. Santos, and J. S. Alcaniz, “A Model-independent Test of Cosmic Isotropy with Low-z Pantheon Supernovae”, *Astrophys. J.*, vol. 865, no. 2, p. 119, 2018. arXiv: [1806.06990 \[astro-ph.CO\]](#).

SCHOLARSHIP/FELLOWSHIP

• Ministry of Science, Technology and Innovation of Brazil Postdoctoral Fellowship	Dec/2021–Aug/2022
• FAPERJ: State of Rio de Janeiro best Ph.D candidates Scholarship	Mar/2020–Nov/2021
• CAPES-PDSE: Institutional Programme for Scholarships for Sandwich Doctorates Abroad	Sep/2019–Feb/2020
• CAPES Scholarship for Ph.D	Mar/2018–Feb/2020
• CAPES Scholarship for M.Sc	Mar/2016–Feb/2018

RESEARCH VISITS

• University of Michigan: Collaborating with prof. Dragan Huterer	Sep/2019–Feb/2020
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PEER REVIEW

- Referee for the *Monthly Notices of the Royal Astronomical Society* (MNRAS) since Jul/2020

SEMINARS AND TALKS

- Brazilian Society of Physics: *Oral Communications* in the XLI National Meeting of Particle and Field Physics, Brazil (27/Sep/2021). “A Test of the Standard Cosmological Model with Geometry and Growth” [\[Home\]](#)
- Annual Graduate Student *Seminar* (31/Aug/2021) at Observatório Nacional. “Tests of the Standard Cosmological Model”
- Brazilian Society of Physics: *Poster-Talk* in the XXI Jorge André Swieca Summer School in Particles and Fields (04/Feb/2021). “A Test of the Standard Cosmological Model with Geometry and Growth” [\[Home\]](#)
- Javalambre Physics of the Accelerating Universe Astrophysical Survey (J-PAS) Theory Group Workshop *Talk* (18/Sep/2020). “Geometry-Growth splitting technique: An empirical consistency test of LCDM cosmology with J-PAS”
- Annual Graduate Student *Seminar* (21/Sep/2020) at Observatório Nacional. “Geometry-Growth splitting technique: An empirical consistency test of LCDM cosmology”
- Annual Graduate Student *Seminar* (11/Jun/2019) at Observatório Nacional. “Cosmic Isotropic with Low-z Pantheon Type Ia Supernovae”
- ICTP/SAIFR: *Short-Presentation* in the III Joint ICTP-Trieste/ICTP-SAIFR School on Observational Cosmology (24/Jul/2019). “Tests of cosmological isotropy” [\[Home\]](#)

- Cosmology Group Meeting *Talk* (18/Sep/2019) at University of Michigan. “Testing the Cosmological Principle with Type Ia Supernovae and Gamma Ray Burst”
- International Institute of Physics/UFRN *Poster-Talk* in the Gravitational Wave Challenges and Cosmology Workshop (03/Jun/2019). “Revisiting the statistical isotropy of GRB sky distribution” [\[Home\]](#)
- Annual Graduate Student *Seminar* (04/Aug/2017) at Observatório Nacional. “Cosmic Isotropic Test with Type Ia Supernovae”

CONFERENCES, SCHOOLS AND WORKSHOPS

- A Discussion on the Cosmological Principle - (25/Oct/2021 - 28/Oct/2021) [\[Home\]](#)
- XLI National Meeting of Particle and Field Physics, Brazil - (27/Sep/2021 - 29/Sep/2021) [\[Home\]](#)
- Cosmology from Home 2021 - (05/Jul/2021 - 16/Jul/2021) [\[Home\]](#)
- I Brazilian Meeting of Girls and Women in Astrophysics, Gravitation and Cosmology - (08/Feb/2021 - 11/Feb/2021) [\[Home\]](#)
- XXI Jorge André Swieca Summer School in Particles and Fields, Brazil - (01/Feb/2021 - 05/Feb/2021) [\[Home\]](#)
- Cosmology Summer School 2020 at the University of Michigan (Virtually) (01/Jun/2020 - 05/Jun/2020) [\[Home\]](#)
- ICTP/SAIFR: *III Joint ICTP-Trieste/ICTP-SAIFR School on Observational Cosmology*. São Paulo, Brazil (22/Jul/2019 – 2/Aug/2019) [\[Home\]](#)
- International Institute of Physics/UFRN: *Gravitational Wave Challenges and Cosmology Workshop*. Natal, Brazil (03/Jun/2019 - 14/jun/2019) [\[Home\]](#)
- Ciclo de Cursos Especiais (CCE) at Observatório Nacional, Brazil (2016, 2017, 2018, 2020, 2021) [\[Home\]](#)
- IV Jayme Tiomno School of Cosmology at at Observatório Nacional, Brazil (29/Aug/2016 - 02/Sept/2016) [\[Home\]](#)

PERSONAL INTERESTS

Running, soccer, calisthenics, music, writing, philosophy, science outreach, teaching, nature, cooking, animals, movies