

# Daniel Panizo

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## Education

2019–2024 **Doctor of Philosophy**, *Uppsala University*, Uppsala, (Sweden)  
thesis title *Blowing Bubbles from String Theory*  
supervisors Ulf Danielsson, Tobias Ekholm, Georgios Dimitroglou  
description Embedding of the dark bubble model in string theory and phenomenological consequences

2016–2019 **Degree of Master of Science (120 ECTS)**, *Uppsala University*, Uppsala, (Sweden)  
thesis title *Type IIB compactifications and string dualities*  
supervisors Giuseppe Dibitetto  
description Compactifications on toroidal orbifolds, non-geometric fluxes and S,T dualities

2010–2016 **Bachelor in Physics (240 ECTS)**, *Universidad Complutense de Madrid*, Madrid, (Spain)

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## Research Positions

2024–2026 **JSPS Postdoctoral position**, *Kyoto University*, Japan

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## Research Visits

22nd to 30th April 2025 **Visiting Researcher**, *Nottingham University*, Collaborator: Prof. Antonio Padilla and Benjamin Muntz

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## Publications

- [1] D. Panizo Pérez, *Blowing Bubbles from String Theory*, Ph.D. thesis, Uppsala U., Inst. Theor. Phys., 2024.
- [2] U. Danielsson and D. Panizo, *Experimental tests of dark bubble cosmology*, *Phys. Rev. D* **109** (2024) 026003 [2311.14589].
- [3] I. Basile, U. Danielsson, S. Giri and D. Panizo, *Shedding light on dark bubble cosmology*, *JHEP* **02** (2024) 112 [2310.15032].
- [4] U. Danielsson, O. Henriksson and D. Panizo, *Stringy realization of a small and positive cosmological constant in dark bubble cosmology*, *Phys. Rev. D* **107** (2023) 026020 [2211.10191].
- [5] U. Danielsson, D. Panizo and R. Tielemans, *Gravitational waves in dark bubble cosmology*, *Phys. Rev. D* **106** (2022) 024002 [2202.00545].
- [6] U.H. Danielsson, D. Panizo, R. Tielemans and T. Van Riet, *Higher-dimensional view on quantum cosmology*, *Phys. Rev. D* **104** (2021) 086015 [2105.03253].

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## Awards and Scholarships

2025–2026 **Daiwa Foundation Small Grant**  
Travel grant to cover costs of scientific visits to Nottingham and Kyoto/Tokyo by Prof. Antonio Padilla (PI), Benjamin Muntz (Co-PI) and Daniel Panizo (co-PI)

2024–2026 **Kakenhi Grant**, (Ref N: 24KF0232)  
Grant-in-Aid for JSPS research fellow granted by the Japan Society for the promotion of science, to cover the travel cost of scientific stays in other institutions or conference participation.

✉ [panizofisico@gmail.com](mailto:panizofisico@gmail.com) • [iNSPIRE/Panizo](#) • [personal webpage](#)

## 2024–2026 **JSPS Postdoctoral Standard Fellowship**

Postdoctoral fellowship awarded by the Japan Society for the Promotion of Science (**JSPS**) to conduct research at Kyoto University, hosted by Professor Takahiro Tanaka.

## 2019–2024 **CIM Scholarship**, *Uppsala University*

PhD funding awarded by **CIM** to attend conferences, visit other institutions, as well as acquiring a computer.

## 2019 **Lundström-Åman scholarship**, *Uppsala University*

Project: **Compactifications on Calabi-Yau manifolds: A backstage for string cosmology**

Master funding awarded by Uppsala University to pay for accommodation expenses while the associated project was conducted.

## 2018 **Erasmus+ scholarship**, *European Commission*

Erasmus funding awarded by Erasmus+ programme to pay for accommodation expenses during my research visit to Arnold Sommerfeld Center (Munich) under Dieter Lüst supervision.

## Invited Talks

- *How does a non-Bunch Davis vacuum sound like?*, Seminar at Nottingham University, UK (April 2025)
- *Experimental tests of dark bubble cosmology*, (digital) seminar at IFT, Madrid (Nov 2023)
- *Our Universe on a (Dark) Bubble*, (digital) seminar at CAPT, University of Nottingham (Nov 2023)
- *A cosmological excursion to Dark Bubbles*, (digital) talk at **String Pheno seminars** (Nov 2023)
- *Our Universe on a (Dark) Bubble*, (digital) seminar at Oviedo University Physics Department (Nov 2023)
- *Dark bubble cosmology*, (digital) seminar at Kyoto University (Jul 2023)
- *Blowing bubbles from string theory*, seminar at Helsinki Institute of Physics (Dec 2022)

## Teaching experience

2020–2024 **Teacher Assistant**, *Classical Electrodynamics (10 ECTS)*

2022–2023 **Teacher Assistant**, *Gravitation and Cosmology (10 ECTS)*

2022–2023 **Lab Assistant**, *Mekanik III (på Svenska, 10 ECTS)*

## Computer skills

Mathematica ■■■■

Latex ■■■■

Python ■■■■

html ■■■■

## Languages

Spanish Native

English C1

Swedish B2

Japanese N5

French A2

Other language Willing to learn

## Referees

- **Ulf Danielsson**, Professor at Uppsala University (Sweden)
- **Thomas Van Riet**, Associate Professor at KU Leuven (Belgium)