



# Daniel PANIZO

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## | Education

- 2019–2024 ○ **Doctor of Philosophy**, *Uppsala University*, Uppsala, (Sweden)  
*Blowing Bubbles from String Theory*  
advisors: Ulf Danielsson, Tobias Ekholm, Georgios Dimitroglou  
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)  
*Type IIB compactifications and string dualities*  
supervisor: Giuseppe Dibitetto  
Compactifications on toroidal orbifolds, non-geometric fluxes and S,T dualities
- 2010–2016 ○ **Bachelor in Physics (240 ECTS)**, *Universidad Complutense de Madrid*, Madrid, (Spain)

## | Research Experience

- 2024–2026 ○ **JSPS Postdoctoral position**, *Kyoto University*, Japan
- 2019–2024 ○ **Ph.D.**, *Uppsala University*, Sweden

## | Research Visits

- Dec 2025 ○ **Visiting Researcher**, *Max Planck Institute for Physics*, Collaborator: Dr. Ivano Basile and Joaquin Masias
- Sep 2025 ○ **Visiting Researcher**, *Uppsala University*, Collaborator: Prof. Ulf Danielsson, Dr. Suvendu Giri and Dr. Vicent van Hemelryck
- Apr 2025 ○ **Visiting Researcher**, *Nottingham University*, Collaborator: Prof. Antonio Padilla and Benjamin Muntz
- Oct-Dec 2018 ○ **Visiting Student**, *LMU*, Supervisor: Prof. Dieter Lust

## | 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)*

## | Invited Talks

- May 2025 ○ *Braneworlds from the Swampland*, seminar at Yukawa Institute, Japan
- Apr 2025 ○ *How does a non-Bunch Davis vacuum sound like?*, seminar at Nottingham University, UK
- Nov 2023 ○ *Our Universe on a (Dark) Bubble*, (digital) seminar at CAPT, University of Nottingham, UK
- Nov 2023 ○ *Experimental tests of dark bubble cosmology*, (digital) seminar at IFT, Spain
- 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, Spain
- Jul 2023 ○ *Dark bubble cosmology*, (digital) seminar at Kyoto University, Japan
- Dec 2022 ○ *Blowing bubbles from string theory*, seminar at Helsinki Institute of Physics, Finland

## | Publications

[1] I. Basile, A. Borys, J. Masias, B. Muntz and D. Panizo, *Lecture Notes on the Dark Bubble (In preparation)*, TBD (2026) .

[2] B. Muntz, A. Padilla and D. Panizo, *UV-embedding of End-of-the-World Braneworlds (In preparation)*, TBD (2026) .

[3] U. Danielsson, D. Panizo and V. van Hemelryck, *(Non)-Normalisable Modes of the Dark Bubble (In preparation)*, TBD (2026) .

[4] D. Panizo, *Blowing Bubbles from String Theory*, Uppsala U., Inst. Theor. Phys. (2024) .

[5] U. Danielsson and D. Panizo, *Experimental tests of dark bubble cosmology*, *Phys. Rev. D* **109** (2024) 026003 [2311.14589].

[6] I. Basile, U. Danielsson, S. Giri and D. Panizo, *Shedding light on dark bubble cosmology*, *JHEP* **02** (2024) 112 [2310.15032].

[7] 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].

[8] U. Danielsson, D. Panizo and R. Tielemans, *Gravitational waves in dark bubble cosmology*, *Phys. Rev. D* **106** (2022) 024002 [2202.00545].

[9] 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].

## | 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.

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 accomodation expenses while the associated project was conducted.

2018

**Erasmus+ scholarship**, European Commission  
Erasmus funding awarded by Erasmus+ programme to pay for accomodation expenses during my research visit to Arnold Sommerfeld Center (Munich) under Prof. Dieter Lüst supervision.

## | Computational Knowledge

	Level	Skill	Years	Comment
Language:	<div><div></div><div></div><div></div><div></div><div></div></div>	Mathematica	7	<i>Symbolic computations</i>
	<div><div></div><div></div><div></div><div></div><div></div></div>	Python	5	<i>Object oriented coding + expertise in <a href="#">Manim</a> libraries</i>
	<div><div></div><div></div><div></div><div></div><div></div></div>	ℒ <sup>A</sup> T <sub>E</sub> X	10	<i>Articles, notes and grant applications written in ℒ<sup>A</sup>T<sub>E</sub>X</i>

## | Languages

Spanish	Native	English	Proficient (C2)
Swedish	Fluent (B2/C1)	Japanese	Beginner (N5)
French	Beginner (A2)	Other	Willing to learn
		Language	