



# Daniel PANIZO

✉ panizofisico@gmail.com  
👤 PanoPepino  
👤 0000-0001-6286-2421

## | 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 Lüst

## | 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	<b>Daiwa Foundation Small Grant</b> 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	<b>Kakenhi Grant</b> , (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	<b>JSPS Postdoctoral Standard Fellowship</b> Postdoctoral fellowship awarded by the Japan Society for the Promotion of Science ( <a href="#">JSPS</a> ) to conduct research at Kyoto University, hosted by Professor Takahiro Tanaka.
2019–2024	<b>CIM Scholarship</b> , <i>Uppsala University</i> PhD funding awarded by <a href="#">CIM</a> to attend conferences, visit other institutions, as well as acquiring a computer.
2019	<b>Lundström-Åman scholarship</b> , <i>Uppsala University</i> Project: <a href="#">Compactifications on Calabi-Yau manifolds: A backstage for string cosmology</a> Master funding awarded by Uppsala University to pay for accomodation expenses while the associated project was conducted.
2018	<b>Erasmus+ scholarship</b> , <i>European Commission</i> 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
	Mathematica	7	<i>Symbolic computations</i>
	Python	5	<i>Object oriented coding + expertise in <a href="#">Manim</a> libraries</i>
	$\text{\LaTeX}$	10	<i>Articles, notes and grant applications written in <math>\text{\LaTeX}</math></i>

## | Languages

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