

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)

Research Positions

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

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].

Awards and Scholarships

- 2024–2026 **Kakenhi Grant**
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 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 Lust supervision.

Talks

- (Contributed) *Do we live on a Bubble?*, contributed talk at JGRG33, Osaka (December 2024)
- (Contributed) *Dark Bubble Cosmology and its Phenomenology*, parallel talk at susy24, Madrid (June 2024)
- (Invited) *Experimental tests of dark bubble cosmology*, (digital) seminar at IFT, Madrid (Nov 2023)
- (Invited) *Our Universe on a (Dark) Bubble*, (digital) seminar at CAPT, University of Nottingham (Nov 2023)
- (Invited) *A cosmological excursion to Dark Bubbles*, (digital) talk at **String Pheno seminars** (Nov 2023)
- (Invited) *Our Universe on a (Dark) Bubble*, (digital) seminar at Oviedo University Physics Department (Nov 2023)
- (Invited) *Dark bubble cosmology*, (digital) seminar at Kyoto University (Jul 2023)
- (Invited) *Blowing bubbles from string theory*, seminar at Helsinki Institute of Physics (Dec 2022)
- (Contributed) *Dark bubbles and their string embedding*, talk at the 31st Nordic Network meeting on "Strings, Fields and Branes" in Copenhagen (Nov 2022)
- (Contributed) *Riding bubbles to take off from the swamp*, talk at String phenomenology conference (Jul 2022)

Teaching experience

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

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

2022–2023 **Lab Assistant**, *Mechanics III (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)