



| Summary

Theoretical physicist with over six years of research experience in mathematical modeling and analytical problem-solving. Competent in Python and Mathematica, with a track record of international collaborations and succesful grant writing. Consistenly striving for a growth mindset, I seek to apply research-based learning strategies and analytical thinking to challenges in technology or finance.

| Core Competencies

- **Advanced mathematics:** Advanced mathematical modeling, including PDE's, non-linear and stochastic systems. Quantitative analysis. Quantum mechanics. Econophysics.
- **Analytical profile:** Critical thinking. Abstract reasoning. Mathematical rigor. Complex models synthesis. Pattern identification. Scenario analysis. Optimisation.
- **Technical proficiency:**

	Level	Skill	Years	Comment
Language:	●●●●●	Python	5	<i>OOP, scientific libraries (NumPy, SciPy, Pandas), package management, visualisation.</i>
	●●●●●	Mathematica	7	<i>Symbolic computations, equation solving, automation, visualisation.</i>
	●●●●●	L <sup>A</sup> T <sub>E</sub> X	10	<i>Technical documentation, professional presentation, template customisation.</i>
	●●●●●	Html	3	<i>Web content creation, structured markup, customisation.</i>
	●●●●●	Matlab	3	<i>Data analysis, numerical computations, visualisation.</i>

- **Professional skills:** Project management. International mobility. Grant writing. Technical communication across *diverse audiences*. Commitment to *mentoring*.
- **Languages:** *Spanish* (Native). *English* (Professional proficiency). *Swedish* (Upper-intermediate). *Japanese, French* (Basic comprehension)

| Professional Highlights

- **Publication & Research Output:** 5 *peer-reviewed publications* in high-impact theoretical physics journals. 15+ international presentations.
- **Funding:** Secured over 200.000\$ in competitive funding, including prestigious grants like **Daiwa** + **Sasakawa** Foundation grants, **JSPS** Fellowship and **CIM** Ph.D. grant, to enable international collaborations and independent projects.
- **Teaching & Outreach:** Teacher Assistant for three courses at Uppsala University during Ph.D (2019-2024). Supervision of three succesful master/bachelor students' theses.

| Education & Research

- 2024–2026 ○ **JSPS Postdoctoral position**, *Kyoto University*, Kyoto, (Japan)
- 2019–2024 ○ **Doctor of Philosophy**, *Uppsala Universitet*, Uppsala, (Sweden)  
Title: *Blowing Bubbles from String Theory*
- 2016–2019 ○ **Degree of Master of Science (120 ECTS)**, *Uppsala Universitet*, Uppsala, (Sweden)  
Title: *Type IIB compactifications and string dualities*
- 2010–2016 ○ **Bachelor in Physics (240 ECTS)**, *Universidad Complutense de Madrid*, Madrid, (Spain)