

Jean-François Vaduret

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contact

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languages

French mother tongue
English fluency
Italian, Spanish notions

programming

C, C++, C#, Python
HTML, CSS
L^AT_EX

skills

Working knowledge of Mathematica and Matlab, good knowledge of string theory and cosmology, quick learner, excellent written and verbal communication skills, able to compute path integrals.

experience

Sept. 2018–Now

Uppsala University

Uppsala, Sweden

Research Internship: Cosmological perturbation theory applied to domain walls in AdS/CFT

Under the supervision of Dr. Marjorie Schillo: Learn about domain walls, AdS/CFT correspondence and their relation to cosmology, to apply cosmological scalar perturbation theory to domain walls in a scalar field universe.

May–June 2018

Uppsala University

Uppsala, Sweden

Research Internship: The theory of the perfect scientific article

Under the supervision of Dr. Rikard Enberg: Consulted literature on scientific writing in order to understand how to write scientific articles and reports.

Detailed achievements:

- Investigated good and bad scientific writings.
- Learned about ins and outs of communication in science.
- Wrote a report on the matter, featuring a mock article on previous research work.

May–July 2017

Centre de Physique Théorique

Marseille, France

Research Internship: Interacting dark energy as a solution to the Hubble tension

Under the supervision of Dr. Federico Piazza: Self-taught general relativity and basics of cosmology to understand literature on the Hubble tension. Then replicated results to explain how interacting dark energy can solve the Hubble tension.

Detailed achievements:

- Self-taught general relativity and cosmology.
- Understood recent research.
- Replicated simple results successfully.

education

2017–Now

M.Sc. in Physics

Uppsala University

(Emphasis on String Theory and Quantum Field Theories)

2014–2017

B.Sc. in Physics with Highest Honors

Aix-Marseille University

interests

professional: cosmology, string theory and teaching. **personal:** acting, bouldering, movie realisation and beer.