

# DIOGO CAPELO

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## ACADEMIC BACKGROUND

M.Sc. in Engineering Physics, Instituto Superior Técnico, Universidade de Lisboa

B.Sc. in Engineering Physics, Instituto Superior Técnico, Universidade de Lisboa

## RESEARCH EXPERIENCE

### FCT – Individual PhD Fellowship

November 2024 – Present

"Impact of Dark Matter Models on Stellar Evolution"

## SELECTED PUBLICATIONS

### Neutrinos and Asteroseismology of Stars Over the Helium Flash

*The Astrophysical Journal, Volume 953, Issue 2, id. 165, 13 pp.*

### The impact of composition choices on solar evolution: age, helio- and asteroseismology, and neutrinos

*Monthly Notices of the Royal Astronomical Society, Volume 498, Issue 2, pp. 1992-2000*

### Cosmological implications of bumblebee vector models

*Physical Review D, Volume 91, Issue 10, id. 104007*

## CONFERENCES & TALKS

### International Conference on Dark Matter and Stars 2025

Contributed talk: "Dark Matter Transport and Stellar Evolution" | Kingston, Canada | July 2025

### Porto Summer School on Asteroseismology: From Pixels to Stellar Ages

Participant | Vila do Conde, Portugal | July 2024

### MESA@Konkoly Summer School

Participant | Budapest, Hungary | August 2023

## RESEARCH INTERESTS

Stellar Structure and Evolution, Stellar Modelling, Asteroseismology, Fundamental Physics