

FRANCISCO G. MAION

fgmaion@gmail.com

EDUCATION

PhD | Computational Cosmology

Donostia International Physics Center

Supervisor - Dr. Raúl E. Angulo

Research Internship | Computational Cosmology

Donostia International Physics Center

Supervisor - Dr. Raúl E. Angulo

Master of Science | Cosmology

Universidade de São Paulo

Supervisor - Prof. Dr. L. Raul W. Abramo

Sep. 2021 (Projected) – Sep. 2025 (Projected)

Donostia/San Sebastián, Spain

Feb. 2021 – Apr. 2021

Donostia/San Sebastián, Spain

Apr. 2019 – May 2021 (Projected) São Paulo, Brazil

Abstract: The main objective of this project has been to perform an analysis of real data from the VIPERS survey using multi-tracer analysis methods, in order to assess whether they are capable of improving the constraints on the cosmological parameters. This involved the development of a power spectrum estimation pipeline, and careful forward modeling of the systematic effects into the theoretical models, to ensure we would obtain unbiased values for the cosmological parameters.

Bachelor of Science | *Physics*

Mar. 2015 – Jan 2019

São Paulo, Brazil

SUMMER COURSES

General Relativity	Graduate Level
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IFT - Unesp / ICTP - SAIFR

Universidade de São Paulo

Jan. 2019 – Feb. 2019 São Paulo, Brasil

Functional Analysis | Gradute Level Jan. 2018 – Feb. 2018

IMPA

Rio de Janeiro, Brazil

Introduction to Linear Algebra | *Undergraduate Level* Jan. 2017 – Feb. 2017 IMPA Rio de Janiero, Brazil

HONORS AND AWARDS

Prêmio Vídeo Pós-Graduação USP

2019

Prize given to best outreach video made by a graduate student in the area of Exact and Earth Sciences.

FAPESP M.Sc. Fellowship Highly competitive grant given by state funding agency.

FAPESP Undergraduate Fellowship

2017-2018

2019-2021

Highly competitive grant given by state funding agency.

Publications - Updated 06/21

TEACHING EXPERIENCE

Physics I (Teaching Assistant)

Universidade de São Paulo

São Paulo, Brazil

Sao I auio, Diazii

Physics I (Teaching Assistant)

Universidade de São Paulo

Jan. 2020 - Jul. 2020

Jan. 2019 - Jul. 2019

São Paulo, Brazil

SKILLS

Languages: Portuguese (Native), English (C2)

Programming: Python (NumPy, SciPy, Matplotlib), C, emcee, CAMB

Document Creation: Profficient LaTex user

COMMUNITY INVOLVEMENT

Preparatory Course for Underprivileged Students Physics teacher at a preparatory course focusing on university admission exams.	Jan. 2019 – Aug. 2020 São Paulo, Brazil
SCIENTIFIC MEETINGS ATTENDED	
Summer Cosmology School University of Michigan	Jan. 2019 Online
III Joint ICTP-Trieste/ICTP-SAIFR School on Observational Cosmology IFT - Unesp / ICTP - SAIFR / ICTP - Trieste	Jun. 2020 São Paulo, Brazil