Alessandra Fumagalli

Curriculum Vitae

Osservatorio Astronomico di Trieste
Via Bazzoni, 2, 34143 Trieste – TS
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Education

October 2017 – October 2019 **Masters degree in Physics**, UNIVERSITY OF TRIESTE,
Area: Astrophysics and Cosmology,
Advisors: Stefano Borgani, Alexandro Saro.
Estimation of theoretical systematics in the cosmological analysis of abundance and clustering of Dark Matter halos.

October 2014 – December 2017 **Bachelor in Physics**, UNIVERSITY OF INSUBRIA,
Area: Physics,
Advisor: Francesco Haardt.
Weak gravitational lensing: analysis methods and cosmological applications.

Present Position

November 2019 – present **PhD in Physics**, UNIVERSITY OF TRIESTE,
Area: Cosmology,
Advisors: Alexandro Saro, Stefano Borgani.
Cosmology with galaxy clusters: study of systematics.

Experience

Research

November 2019 – Present **Euclid Member**.
Galaxy Clusters Science Working Group

Teaching

February 2017 – July 2017 **Laboratory assistant**, UNIVERSITY OF INSUBRIA.
Optics and Electromagnetism.

Other

PI of INAF-CINECA class-C proposal

Computer skills

PYTHON, MATLAB, LATEX

Languages

English Fluent
Italian Native language

Academic Articles

Published

2021 **A. Fumagalli**, A. Saro, S. Borgani, T. Castro, M. Costanzi, P. Monaco, E. Munari, E. Sefusatti et al., *Euclid: Effects of sample covariance on the number counts of galaxy clusters.*
`http://arxiv.org/abs/2102.08914`

In preparation

2021 A. Ragagnin, T. Castro, K. Dolag, **A, Fumagalli** , A. Saro, M. Costanzi, S. Bocquet, *Satellite galaxy abundance dependency on cosmology in Magneticum simulations.*

Participation at conferences

Contributed talks

2021 *From Cluster Detection to Cosmological Posteriors.* SPV3 Euclid meeting.

2020 *Theoretical systematics for cluster number counts*. Dissecting Cluster Cosmology.

Other

2021 Python in HPC @ICHEC