

# Alessandra Fumagalli

## Curriculum Vitae

Osservatorio Astronomico di Trieste  
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### Education

- October 2017 – **Masters degree in Physics**, UNIVERSITY OF TRIESTE,  
October 2019 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 – **Bachelor in Physics**, UNIVERSITY OF INSUBRIA,  
December 2017 Area: Physics,  
Advisor: Francesco Haardt.  
Weak gravitational lensing: analysis methods and cosmological applications.

### Present Position

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

### Experience

#### Research

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

#### Teaching

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

#### Other

PI of INAF-CINECA class-C proposal

### Computer skills

PYTHON, MATLAB, LATEX

### Languages

- English Fluent  
Italian Native language

### Academic Articles

#### Submitted

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

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## 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