Education

1/2

Work experience

2013–2016 Bachelor degree in Physics, Sapienza University of Rome. Final grade: 110/110 cum laude 2010–2017 **Diploma in classical guitar**, *Santa Cecilia conservatory of Rome*. Final grade: 7/10 2016–2018 Master degree in Physics, Sapienza University of Rome. Final grade: 110/110 cum laude 2018 - PhD in Physics, Sapienza University of Rome. October 2021

Courses, workshops and conferences

7-13 Nov 3rd course on multiscale integration in biological systems, Institute Curie, 2018 Paris.

Flash talk and poster

1-3 May 2019 44th conference of the middle European cooperation in statistical physics, Kloster Seeon,

Munich.

Poster

12-14 June Workshop: Statistical mechanics of active matter, GSSI, L'Aquila.

2019 Poster

9 Feb 2021 Course:Machine Coursera Stanford, Learning, University of

https://www.coursera.org/account/accomplishments/certificate/GKGQCL93CQ3Z.

17 March Specialization: Deep Learning Coursera deeplearning.ai,

2021 https://www.coursera.org/account/accomplishments/specialization/certificate/MXKDVEY99WW7.

Awards

2018-2021 PhD scholarship at Sapienza University of Rome

1st sem. **Tutor for the bachelor course** "**Laboratorio di calcolo**", *Sapienza university*, 2018/2019 *Rome*.

1st sem. **Tutor for the bachelor course** "**Laboratorio di calcolo**", *Sapienza university*, 2019/2020 *Rome*.

1st sem. Teaching assistant for the bachelor course "Quantitative models for data 2020/2021 science", *LUISS Guido Carli university, Rome*.

Publications

- { Andrea Cavagna, Antonio Culla, Luca Di Carlo, Irene Giardina and Tomás S. Grigera. Low-temperature marginal ferromagnetism explains anomalous scale-free correlations in natural flocks. Comptes Rendus Physique, Volume 20, Issue 4, May-June 2019,
 - Pages 319-328, https://doi.org/10.1016/j.crhy.2019.05.008
- { Andrea Cavagna, Antonio Culla, Xiao Feng, Irene Giardina, Tomás S. Grigera, Willow Kion-Crosby, Stefania Melillo, Giulia Pisegna, Lorena Postiglione and Pablo Villegas. Marginal speed confinement resolves the conflict between correlation and control in natural flocks of birds. Submitted to Nature Communications https://arxiv.org/abs/2101.09748

Computer skills

Beginner R, matlab, SQL

Intermediate C,C++, python, Mathematica

Languages

Italian Mothertongue

English FCE-B2
Spanish DELE-B2