



Rossana Droghetti

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Italy

Rossana Droghetti

Master degree in Physics

About Me I am an hard-working person, curiosity and passion push me to go beyond my limits

Education

2018 - 2021, [Università degli studi di Milano - Statale](#)

Master Degree in Physics - Thesis title: Quantitative analysis of bacterial adaptation to stationary phase - graduation vote 110/110 cum laude.

October 2019 - March 2020, [Technical University of Munich](#)

Erasmus semester at TUM Physics Department.

2014 - 2018, [Università degli studi di Milano - Statale](#)

Bachelor Degree in Physics - Thesis title: A physical model for the evolution of replication profiles in yeasts - graduation vote 106/110.

2009 - 2014, ["L. Geymonat" Scientific High School](#)

Scientific High School diploma - graduation vote 96/100.

Attended schools and significant experiences

June 2021 - July 2021, [Internship, Technical University of Munich, Munich, Germany](#)

Two months Internship at Professor Gerland's Lab, to conduct additional experiments related to my master thesis project, in preparation for a paper. This work was supported by the internship program of SFB1032 ([link](#)).

January 2021 - June 2021, [Master thesis project, Technical University of Munich, Munich, Germany](#)

My master thesis was an interdisciplinary experimental project carried out at Professor Gerland's Lab. My stay was supported by a six-months scholarship I was awarded with, provided by Università degli studi di Milano - Statale ([link](#)).

October 2019, [2019 Arnold Sommerfeld School - School on the Physics of Life, Munich, Germany](#) ([link](#)).

Main topics:

- Spatial population genetics,
- Information theory and optimality in biological networks,
- Statistical mechanics approaches for studying microbial growth.

July 2019, [Pre - doctoral school in QUANTITATIVE BIOLOGY, IFOM - FIRCI Institute of Molecular Oncology, Milan, Italy](#) ([link](#)).

Main topics:

- Computational genomics,
- Single cells dynamics.



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June 2019, *Summer School on Classical Molecular Dynamics for Material Science, Nanotechnology and Biophysics*, SISSA - Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy ([link](#)).

School organized by CECAM - Centre Européen de Calcul Atomique et Moléculaire. Main topics:

- Basic concepts in C++ and bash programming language,
- Lectures, seminars and hands-on tutorial on classical molecular dynamics.

March 2018 - June 2018, *Bachelor thesis project*, Université Pierre et Marie Curie, Paris, France.

My bachelor thesis was an interdisciplinary theoretical project carried out in the Laboratory of Computational and Quantitative Biology at Pierre e Marie Curie University, in Paris.

November 2016 - 2017 - 2018, *High schools laboratories*, AISF - Italian Association of Physics Students, Milan, Italy.

Organization, with few other bachelor students, of a series of laboratory experiences for the students of Lombardy high schools, hosted in the Physics department of Università degli studi di Milano - Statale.

2015 - present, *Scout group Leader*, Varese, Italy.

Leader in the local scout group. Main tasks:

- activities organization, both weekends activities and the two weeks summer camp,
- children supervisions.

Communication Skills

September 2021, *IELTS Certification*

Brand score: 8.0 / 9.0

October 2019 - March 2020, *Erasmus Mobility Program*

Erasmus semester at Technical University Munich, Germany.

Languages

- English (IELTS brand 8.0)
- Italian (native)

Programming Skills

Known languages

- C++ (advanced level)
- Bash (intermediate level)
- Python (intermediate level)
- MATLAB (basic level)
- Mathematica (basic level)



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References

If you want to know something about me and my way of working, you should contact Marco Cosentino Lagomarsino, associate professor at Università degli studi di Milano - Statale, who has supervised me since my bachelor thesis.

- Marco.CosentinoLagomarsino@unimi.it

Conference contributions and presentations

September 2021, *Munich Yeast Meeting 2021*, Online Zoom meeting (link).

Short talk presentation, title: "*An evolutionary model identifies the main evolutionary biases for the evolution of genome-replication profiles*"

November 2020, *Paris Biological Physics Community Day 2020*, Online Zoom meeting (link).

Short talk presentation, title: "*An evolutionary model identifies the main selective pressures for the evolution of genome-replication profiles*"

October 2019, *2019 Arnold Sommerfeld School - School on the Physics of Life*, Munich, Germany (link).

Poster presentation, title: "*Origin birth death model for the evolution of replication profiles in yeasts*"

Publications

In Peer-reviewed Scientific Journals

(square brackets [] indicate author position)

2020

- R Droghetti, N Agier, G Fischer, M Gherardi, M Cosentino Lagomarsino, **An evolutionary model identifies the main evolutionary biases for the evolution of genome-replication profiles** eLife, doi: 10.7554/eLife.63542. (link) [I]