

Ilaria Mosca

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SUMMARY

Hardworking and enthusiastic Ph.D. student. Art, travel and food passionate.

WORK EXPERIENCE

Research trainee, Lonza AG, Basel (CH)

May-June 2022

- attendance of basic lab training and safety course
- protein sample preparation and characterization, dialysis, concentration and buffer exchange
- use of techniques like Slope-Spectroscopy for determining sample concentration and viscosimetry

Cooking assistant and waitress, Family Restaurant

Oct 2015 - Sept 2021

- developed experience in dish preparation and presentation
- worked at fast pace and managing pressure
- shared knowledge on menu items, enabling costumers to make personal decisions
- resolved guest complaints to maintain complete costumer satisfaction

Hotel management trainee, Jury's Inn Christchurch Dublin

Feb 2014 (2 weeks)

- learned basics of reception and hospitality
- helped in hotel's bar and restaurant

EDUCATION

- Oct 2021 - present **Ph.D. candidate in Physics**, joint title between *Institut für Angewandte Physik, Eberhard Karls Universität Tübingen* (Germany) and *Institut Laue-Langevin (ILL)* in Grenoble (France) in the framework of InnovaXN (innovaxn.eu), an Horizon2020 MSCA COFUND doctoral programme (EU grant No 84743)
- *Project*: Microscopic dynamic properties of antibody solutions: connecting to macroscopic phase behaviour and pharmaceutical applicability ([see project details](#))
- *Industrial partner*: Lonza AG, Basel (Switzerland)
- Oct 2018 - Jul 2021 **M.Sc. degree in Condensed Matter Physics**, *Universita' degli Studi di Perugia* (Italy)
- *Relevant courses*: Soft Matter, Physics of many-body systems, Statistical Mechanics, Physics of DNA and Biomolecules
- *Thesis title*: Nanosecond confined dynamics of G-Quadruplex DNA in the presence of anticancer drugs
- *Advisors*: Prof. Alessandro Paciaroni, Dr. Lucia Comez (IOM-CNR Perugia)
- *Score*: 110/110
- Oct 2014 - Apr 2018 **B. Sc. degree in Physics**, *Universita' degli Studi di Perugia* (Italy)
- *Thesis title*: Dynamics of lysozyme in matrices of modified bioprotectant monosaccharides
- *Advisor*: Prof. Andrea Orecchini
- *Score*: 103/110
- Oct 2009 - Jun 2014 **High school diploma** in Foreign Languages, *Liceo Classico Jacopone da Todi*, Todi (PG) (Italy)
Score: 100/100

SKILLS

- Programming and data analysis Python, Mantid, Octave, Gnuplot, SasView, SAXSUtilities
- Lab skills Protein sample preparation, buffer exchange, dialysis, concentration, centrifugation, use of protein characterization techniques
- General skills Social skills, critical thinking, team work, report writing
- Languages English, French and Spanish (fluent, B2 level), German (very basic understanding)
- Driving license Type B (in Italian driving regulations)

CONFERENCE CONTRIBUTIONS

- May 19-24, 2023 Oral contribution at the **VII Conference on Frontiers in Water Biophysics (FWB)** in the frame of the *XXVII Course of the International School of Statistical Physics* in Erice (TP), Italy
- March 13-17, 2023 Oral contribution at the **XVI International Workshop on Complex Systems** in Andalo (TN), Italy; awarded with “*Best talk by a young researcher*”
- Dec 12, 2022 Poster contribution at **ILL-ESRF Soft Matter Afternoon** in Grenoble, France
- Oct 5-7, 2022 Oral contribution at the **Joint ILL-ESS User Meeting 2022** in Lund, Sweden
- Sept 26-28, 2022 Poster contribution at the “**50 years of D11**” symposium at ILL in Grenoble, France
- Sept 15, 2022 Poster contribution at **XXXIII Congresso Annuale SISN** (Societa’ Italiana di Spettroscopia Neutronica) in Milan, Italy
- Sept 5-7, 2022 Poster contribution at **SNI 2022** (German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities) in Berlin, Germany
- Jul 6-7, 2022 Poster contribution at **InnovaXN Plenary Event** at ESRF in Grenoble, France
- May 23-27, 2022 Oral contribution at **QENS/WINS 2022** (Conference on Quasi-Elastic Neutron Scattering and Workshop on Inelastic Neutron Scattering) in San Sebastián, Spain

ADDITIONAL EXPERIENCES AND ACHIEVEMENTS

Attendance of seminars, schools and trainings Dec 2022 - now

- PhD seminar series at the ILL: attendance in 34/36 seminars held by PhD students from the ILL Graduate School (hybrid mode)
- “Leadership and Teambuilding” training, 16-hour course held by Xavier Delaigue at the Université Grenoble-Alpes (UGA), Grenoble

Attendance of seminars, schools and trainings Nov 2021 - Nov 2022

- **InnovaXN “Innovation and Entrepreneurship School”**, Grenoble
- Scientific Writing training, seven-hour course + one-hour individual session held by Susan Mitchell (online)
- PhD seminar series at the ILL: attendance in 34/36 seminars held by PhD students from the ILL Graduate School (hybrid mode)
- SOPHIE (Scientific Oral Presentations Held In English) training, twelve-hour course held by Michael Burt at the EPN campus, Grenoble
- “Become a Researcher” training, fourteen-hour course organised by Université Grenoble-Alpes (UGA) and held by Signe Seidelin and Christophe Durand (online)
- \LaTeX lecture series, six-hour course held by Christian Beck at the ILL, Grenoble

Course attendance Feb 2014

Two-week advanced English course (C1 level) at *Swan Training Institut*, Dublin (IE)

Language certificates

May 2013

- B2 FCE (First Certificate of English), Cambridge University
- B2 DELF (Diplôme d'Etudes en Langue Française)

Experiences abroad

2012 - 2014

- several experiences of school exchange in Spain, France, Poland, Germany and Ireland during high school

Volunteering, Azione Cattolica Italiana

Jul 2014 - present

- assisted with special events and programs
- coordinating food, clothing and household items for disadvantaged families
- used critical thinking to break down problems and evaluate solutions