



Loreto Misuraca

quasi Ph.D. in (Bio)Physics,
Writing my Thesis

- 16/12/1990
- 12, rue des bains
- +33 7 71 66 68 75
- misuraca.loreto@gmail.com

About Me

Rational thinker. I love finding solutions to new problems and analyzing data to gather insights. Never tired to learn and improve: limits are meant to be broken!

I speak

- Italiano ●●●●●
- English ●●●●●
- Francais ●●●●●
- Deutsche ●●●●●

Really good at

- Data analysis - coding
- Soft matter - Lipid science
- Scattering & spectroscopy

Proud of being

- Problem solver
- Organized
- Self-motivated
- Meticulous
- Adaptable
- Patient

Where to find me

- LinkedIn
- ResearchGate
- Twitter: @LoretoMisuraca

Looking ahead for my next opportunity (from April 2021)

Expertise

- Subjects** **Soft matter & biophysics:** structure and dynamics of model biomembranes, origin of life, high pressure - high temperature biophysics, lipid science, water dynamics.
- Techniques** **Scattering:** neutron (small angle diffraction and SANS), x-ray (SAXS), light (SLS and DLS); **Spectroscopy:** neutron (elastic and quasi-elastic), FTIR, UV-VIS, Fluorescence; NMR; Calorimetry.
- Programming** **Python** (exploratory data analysis, machine learning basics), C, MATLAB (basic).

Working Experience

- 2017 – currently **Young Researcher** Institut Laue Langevin (ILL), FR
Project: *Protomembranes at the origin of life.*
Project management; sample preparation; experiments; writing (proposals, reports, scientific publications); results presentation at international conferences.
- 2015 – 2017 **M.Sc. Trainee** ILL - Université Grenoble Alpes (UGA), FR
Sample preparation; experiments, data analysis; publication in scientific journal.

Education

- 2017 – currently **Ph.D. in Physics** Université Grenoble Alpes (FR)
Thesis title: *Protomembranes at the origin of life.*
- 2014 – 2017 **M.Sc. in Physics (110/110 cum laude)** Università di Palermo (IT)
Thesis title: *Elastic and Quasi-elastic Neutron Scattering on biological and model systems.*

Formation courses

- 2020 **Data science with Python bootcamp**
DPhi, online
- 2020 **Probability: the science of uncertainty and data**
edX (MIT), online
- 2020 **Inkscape graphic course**
ILL
- 2019 **ICAE (Innovation, Consulting, Activity and Corporate Creation)**
UGA
- 2019 **SOPHIE (Scientific Oral Presentation Held In English)**
ILL

Hobbies and duties

- Activism** Safeguarding and promotion of the Sicilian language.
- Sports** Snowboarding and nordic walking.
- Social** PhD social officer at the ILL (2019-2020).
- Music** Self-taught, rusty drummer.
- Others** Reading and travelling (eco-responsibly!)

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Memberships



International Society for
the Study of the Origin of
Life



Cademia Siciliana




Société Française de Bio-
physique

References


Dr. Bruno Demé
PhD co-supervisor

 D16 Instrument Responsible
ILL, Grenoble (FR)
@deme@ill.fr

Prof. Judith Peters
PhD co-supervisor

 Full Professor
UGA - LIPhy, Grenoble (FR)
@jpeters@ill.fr

Dr. Philippe Oger
PhD co-supervisor

 Project P.I.
INSA, Lyon (FR)
@philippe.oger@insa-lyon.fr

Publications

- 2020 **High-Temperature Behavior of Early Life Membrane Models**
Misuraca L. et al.
Langmuir
- 2017 **Mobility of a Mononucleotide within a Lipid Matrix: A Neutron Scattering Study**
Misuraca L. et al.
Life
& more coming soon!

Conferences

- 2019 **Bilayers at ILL**
Oral presentation
Institut Laue Langevin
Grenoble
- 2019 **Solvation Science Meets High Pressure Bioscience**
Poster
Joint meeting DFG - IMBP - RESOLV
Dortmund
- 2019 **European Biophysics Congress**
Poster
Joint meeting EBSA, ICBP & IUPAP
Madrid
- 2019 **European Conference of Neutron Scattering (ECNS)**
Oral presentation
European Neutron Scattering Association & Kurchatov Institute
Saint Petersburg
- 2018 **ILL - ESS User Meeting**
Poster
Institut Laue Langevin & European Spallation Source
Grenoble (FR)
- 2017 **ISSOL International conference**
Poster
International Society for the Study of the Origin of Life
San Diego (US)

Secondments

- 2020 Experiments with x-rays Diamond Light Source, Didcot (UK)
- 2019 Solid state NMR experiments I.E.C.B. Bordeaux (FR)
- 2018 High temperature - pressure FTIR & Fluorescence T.U. Dortmund (DE)