

## CV - PROF. DR. ENRICA BORDIGNON

Italian, 05.02.1975

Married - One child born in 2015

Orcid ID 0000-0003-2450-5161



### Research topics

- Physical chemist with a focus on biomolecular EPR spectroscopy, combined with EM, X-ray crystallography, MD simulations
- Proteins' conformational changes, membrane proteins, ABC transporters, toxins, apoptosis, LLPS, hydration dynamics
- Development of Pulsed Dipolar Spectroscopy methods

### Research numbers

- 80 papers in peer reviewed journals
- h-index: 38 i-10 index: 63 (Google Scholar, August 2023)
- > 25 invited talks at national/international conferences or institutions

[www.unige.ch/sciences/chifi/bordignon/home](http://www.unige.ch/sciences/chifi/bordignon/home)

twitter [@Bordignon\\_lab](https://twitter.com/Bordignon_lab) [@enricabordignon](https://twitter.com/enricabordignon)

### EDUCATION

01.2000-02.2003 **Ph. D. in Chemistry**, University of Padova, Italy

10.1995-12.1999 **M. Sc. in Chemistry** (110/110 *Summa cum Laude*), University of Padova, Italy

### ACADEMIC EXPERIENCE

Since 07.2023 **Vice Dean** of the Faculty of Science at the **University of Geneva**

Since 09.2021 **Full Professor in Physical Chemistry** at the **University of Geneva**

04.2016-08.2021 **W2 Professor in EPR Spectroscopy** (permanent position) at the **Ruhr University Bochum** (Germany), Faculty of Chemistry and Biochemistry. Principal Investigator in the Cluster of Excellence **RESOLV** (EXC-1069 and EXC-2033)

09.2013-03.2016 **W2 Professor in biophysics** (fixed term position until 01.09.2018) at the **FU Berlin** (Germany), Department of Physics

04.2008-08.2013 **Researcher** at the **ETH Zürich**, (Switzerland), Department of Physical Chemistry, in the group of Prof. G. Jeschke (**Senior Researcher/Oberassistent** 2012-2013; **Post-Doctoral Fellow** 2008-2012)

09.2003-04.2008 **Post-Doctoral Fellow** at the **University of Osnabrück** (Germany), Department of Physics, in the group of Prof. H.-J. Steinhoff

2002, 2003 **Research internship** at the **TU Berlin** (Germany)

### AWARDS AND FELLOWSHIPS

2016 **Ampere Prize for Young Investigator** in recognition of her achievements using spin-label EPR for the characterization of large proteins (Groupement Ampere)

2011 **IES Young Investigator Award** (International EPR Society)

2004 **Alexander von Humboldt Postdoctoral Research Fellowship**

## TEACHING ACTIVITIES

**UNIGE** *Master course:* Spectroscopic methods in physical chemistry, Physical Chemistry of polymers and biomacromolecules. *Bachelor courses:* PCI, PCIII, TP general chemistry I

**RUB** *Bachelor course:* Allgemeine Chemie. *Master courses:* Fundamentals of Magnetic Resonance, Biophysical Chemistry I, Biophysical Chemistry II, Lecture series in Biomolecular Chemistry.

**FU Berlin** *Master courses:* Modern Methods in Experimental Physics; Selected Topics in Physics.

**ETH Zürich** *Bachelor courses:* Exercises for physical chemistry IV, Exercises for physical chemistry I.

**FU Berlin** Guest Professor at the Dept. of Physics (WS 2011-2012) in the frame of the 'Berliner Chancengleichheitsprogramms'. *Master course:* 'Advanced EPR in biophysics: site-directed spin labeling'.

## OTHER SCIENTIFIC RESPONSIBILITIES

- Reviewer for scientific journals, including *Nature Communication*, *Nature Chemical Biology*, *PNAS*, *Angewandte Chemie*, *Chemistry A European Journal*, *Biophysical Journal*, *Journal of Magnetic Resonance*
- Reviewer for DFG projects, SFB, 'Großgeräte' Instrumentation
- RESOLV PI and Speaker of the Gender Board from 2017 to 2021; organizer of the 'Women and Science' meeting 2019: <https://www.solvation.de/career/equal-opportunities/mustresolv-gender-and-science-meeting/>
- Member of the committee for FAIR Data Management in RESOLV
- Member of the organizing committee of Rocky Mountain Conference 2019
- Organizer and teacher for the EPR Summer school in Berlin 2015 and in Geneva 2023
- Responsible of the molecular biology S1 laboratory at ZEMOS, RUB
- Co-organizer of Les Houches-TSRC Workshop on Protein Dynamics editions 2018, 2021, 2022, 2024 <https://sites.google.com/view/proteindynamics/>
- Member of the IEES society, AMPERE society, ISMAR Council
- Participant to the H.I.T. program 2023

## THREE PUBLICATION HIGHLIGHTS LAST 5 YEARS

Galazzo, Meier et al., The ABC transporter MsbA adopts the wide inward-open conformation in *E. coli* cells. 2022 **Science Advances** 8 (41), eabn6845

Kucher et al., In-cell double electron–electron resonance at nanomolar protein concentrations 2021 **The Journal of Physical Chemistry Letters** 12 (14), 3679-3684

Hutter et al., The extracellular gate shapes the energy profile of an ABC exporter 2019 **Nature Communications** 10 (1), 2260