

Fabio GIAVAZZI, born in Milano (Italy) on November 19, 1978

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RESEARCH INTERESTS

- Biophysics (Collective cell motility, Internal cell dynamics and microrheology)
- Soft Matter (Complex fluids, Rheology, Fluctuations, Instabilities)
- Optical techniques (Quantitative Microscopy, Optical label-free biosensing)

EDUCATION

Jan 2008 University of Milan, **PhD in Physics** (excellent), *Universality and scaling in high-Rayleigh number Soret-driven convection* (Supervisor: Alberto VAILATI)

Apr 2005 University of Milan, **Laurea in Physics** (110/110 cum laude), *Extinctions and speciations in a simple ecological model* (in Italian)

ITALIAN SCIENTIFIC ABILITATION (ASN)

Settore Concorsuale 02/D, II fascia, 07/2017 – 07/2023

PROFESSIONAL EXPERIENCE

05/2018 – present **ASSISTANT PROFESSOR (RTD-A)**, *BIOMETRA Dep., University of Milan, Italy*

08/2013 – 04/2018 **POSTDOC**, *BIOMETRA Dep., University of Milan, Italy*

09/2011 – 08/2015 **CEO**, *ProXentia Srl, Milan, Italy*

01/2008 – 04/2013 **POSTDOC**, *Dep. of Medical Biotechnology, University of Milan, Italy*

TECHNOLOGY TRANSFER

- **Cofounder of the spinoff ProXentia** (development and marketing of label-free biosensors)
- **Inventor of 1 patent** (WO 2011050968 A1, *Method for the direct measure of molecular interactions by detection of light reflected from multilayered functionalized dielectrics*)
- **Consultant for industries/companies** for the realization of advanced optical instrumentation, optical testing and material characterization (Solvay, ODL, Klinger, Procter&Gamble)

REVIEWER ACTIVITY

On average 8 papers/year for different journals including PRL, PRE, PRX, EPJE, Soft Matter, Scientific Reports, Sensors, Optics Letters, Transport in porous media.

PUBLICATION RECORD SUMMARY

Citations: 353 [Scopus]

h-index: 10 [Scopus]

28 peer reviewed publications (**9** in journals with IF>5): 1 Nature Materials (as corresponding author), 2 PNAS (1 as first author), 1 Nature Communications (as co-first author), 2 PRL, 2 Biosens.Bioelectron. (as first/co-first author), 1 Sensors and Actuators B.

TALKS AND LECTURES:

15 contributed and invited talks at international conferences and workshops;

2 invited talks for dep. seminars/colloquia (DE, CH);

2 invited lectures at international schools (Quantitative Biology and Cell biophysics).

ORGANISATION OF SCIENTIFIC MEETINGS:

Italian Soft Days 2016 (Milan, Italy) – Local organizer.

TEACHING ACTIVITY

2016-2017 **Mathematics**, Medical Biotechnology, University of Milan, Italy

2014-2016 **Physics Exercises (Waves and Oscillations)**, Physics, University of Milan, Italy

2007-2012 **Physics Exercises (Waves and Oscillations)**, Physics, University of Milan, Italy

2008-2009 **Physics Exercises**, Biotechnology, University of Milan, Italy

2007-2009 **Physics Exercises**, Natural Science, University of Milan, Italy

2006-2008 **Optics and Electromagnetism Lab**, Physics, University of Milan, Italy

2005-2007 **Physics Exercises**, Mechanical Engineering, Politecnico di Milano, Italy

TUTORING ACTIVITY

7 Master students in Physics (co-tutoring)

14 Bachelor students in Physics (co-tutoring)

1 Bachelor student in Medical Biotechnology (tutoring)