

## UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di valutazione per la copertura di n. 1 posto/i di Professore universitario di prima fascia per il settore concorsuale 02/D1 - FISICA APPLICATA, DIDATTICA E STORIA DELLA FISICA - settore scientifico disciplinare FIS/07 - FISICA APPLICATA (A BENI CULTURALI, AMBIENTALI, BIOLOGIA E MEDICINA) da coprire mediante chiamata ai sensi dell'art. 24, comma 6, Legge n. 240/2010 presso il DIPARTIMENTO DI FISICA "ALDO PONTREMOLI" - Codice concorso 4079

## Roberto CERBINO CURRICULUM VITAE

### INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	CERBINO
NOME	ROBERTO
DATA DI NASCITA	17 MAGGIO 1975

### FORMAZIONE

- Dic 2004 Università degli Studi di Milano, PhD in Fisica (eccellente), Shadowgraphic study of convection in a colloidal suspension (Supervisore: Marzio Giglio)
- Mar 2001 Università degli Studi di Milano, Laurea in Fisica (110/110 cum laude), Studio ottico di un'instabilità convettive in un fluido scaldato dall'alto

### ABILITAZIONI

- Prima fascia 02-D1 conseguita nel 2017
- Prima fascia 02-B1 conseguita nel 2018

### POSIZIONI RICOPERTE

- 05/2018 --> 06/2018-----**Visiting Professor**, École normale supérieure de Lyon (Host: Sergio Ciliberto)
- 03/2015 --> present-----**Associate Professor of Applied Physics**, Dep. of Medical Biotechnology and Translational Medicine, University of Milan, Italy
- 11/2007 --> 02/2015-----**Assistant Professor of Applied Physics**, Dep. of Medical Biotechnology and Translational Medicine, University of Milan, Italy
- 07/2010 --> 08/2010-----**Visiting researcher**, Dep. of Physics, University of Ottawa, Canada (Hosts: James Harden and Andrew Pelling)
- 11/2006 --> 10/2007-----**Marie-Curie IEF (FP6)**, Dep. of Physics, University of Fribourg, Switzerland (Supervisor: Frank Scheffold)
- 11/2004 --> 10/2006-----**Postdoc Research Associate**, Dep. of Physics, University of Milan, Italy (Supervisor: Marzio Giglio)

## ATTIVITA' DIDATTICA

L'attività didattica è iniziata nel 2001 ed è continuata ininterrottamente in Italia e all'estero, sia in italiano che in inglese. Durante questo periodo ho insegnato a tutti i livelli (Bachelor, Master, Dottorato) sia in aula che in laboratorio. Ho insegnato davanti a 300 studenti ma anche in aule con pochi studenti. Esempi di corsi tenuti sono: Fisica di base per la medicina, Fisica applicata avanzata per i medici di riabilitazione, Fisica dei fluidi per i medici aeronautici, Ottica di base di Fourier per i fisici, Ottica avanzata per i fisici, Metodi sperimentali avanzati per i fisici, Matematica per i biotecnologi. La mia attività didattica è dettagliata di seguito.

### Attività didattica attuale come docente responsabile presso l'Università di Milano

- dal 2018/2019 Fisica Medica per Ostetricia (15 ore)
- dal 2018/2019 Fisica Medica per Infermieristica (15 ore)
- dal 2015/2016 Fisica Medica per tecnici della Perfusionazione (20 ore)
- dal 2012/2013 Physics for Medical students (ENGLISH, 72 ore)
- dal 2007/2008 Fisica applicata avanzata per Specializzandi in Medicina Fisica e Riabilitativa (17 ore)

### Attività didattica precedente come docente responsabile presso l'Università di Milano

- (1 anno dal 2017/2018) Matematica per Biotecnologie Mediche (48 ore)
- (5 anni dal 2013/2014) Fisica per Fisioterapia (30 ore)
- (1 anno dal 2001/2012) Fisica dei Fluidi in assenza di gravità per il Master in Medicina Aeronautica (2 ore)
- (4 anni dal 2009/2010) Fisica Medica per Tecnici di Laboratorio Biomedico (40 ore)
- (4 anni dal 2008/2009) Fisica Applicata per Tecnici Ortopedici (20 ore)
- (3 anni dal 2008/2009) Fisica Applicata per Assistenti Sanitari (10 ore)
- (9 anni dal 2009/2010) Experimental methods for systems at the nanoscale for PhD students in Physics (ENGLISH, 4 ore)

### Attività didattica integrativa presso l'Università di Fribourg

- (2006-2007, 1 anno) PH1500-Physik für Mediziner/Physique pour Medicine (Doc. Resp Peter Schurtenberger)
- (2006-2007, 1 anno) PH1200-Physik II für Naturwissenschaftler / Physique II pour scientifiques (Doc. Resp Peter Schurtenberger)

### Attività didattica integrativa presso il Politecnico di Milano

- (2003-2004, 1 anno) Esercitazioni di Fisica per Ingegneria Gestionale (Doc. Resp Daniela Comelli)
- (2005-2006, 1 anno) Esercitazioni di Fisica per Ingegneria Biomedica (Doc. Resp Caterina Vozzi)

### Attività didattica integrativa presso Università degli Studi di Milano

- (2001-2006, 5 anni) Laboratorio di Ottica Quantistica (Doc. Resp Marzio Giglio)
- (2004-2005, 1 anno) Laboratorio di Ottica di Fourier (Doc. Resp Marzio Giglio)

### Attività didattica presso scuole internazionali

1. International school: "Water and water systems" 2nd Course: "Polymers and Soft Materials: Glasses, Gels and Networks", 9-16 July 2019, Erice, Italy
2. 14th European Summer School on "Scattering Methods Applied to Soft Condensed Matter", June 19-26 2018, Carcans-Maubuisson, France
3. IFOM Summer School in Quantitative biology, July 18-29 2016, Milan, (Italy)
4. NSERC-CREATE Summer School in Cell Biophysics, July 18, 2012, Ottawa (Canada)
5. Stella International School for Training and Experiments with Lasers and Laser Applications, June 18, 2012, Pavia (Italy)
6. Stella International School for Training and Experiments with Lasers and Laser Applications, June 20, 2011, Como (Italy)

### Altra attività didattica

- Webinar di fisica in preparazione al test di ingresso per Medicina e Odontoiatria (tre edizioni in

- Luglio 2015, 2016 and 2017)
- Progettazione di un ambiente didattico Moodle nell'ambito del progetto PMF (Progetto Matematica-Fisica) per e-learning di Matematica e Fisica rivolto a Studenti delle scuole superiori e a matricole universitarie.

### Supervision and tutoring

- 5 Postdocs (Francesca Serra, Silvia Biffi, Fabio Giavazzi, Giovanni Savorana, Manuel de Jesus Sanchez Miranda)
- 4 PhD Students (Stefano Mazzoni, Gea Donzelli, Silvia Biffi, Paolo Edera)
- 13 Master Students (Stefano Mazzoni, Andrea Zelioli, Gea Donzelli, Antonio Speciale, Stefano Crotti, Alessandro Fornasieri, Marco Mischiatti, Paolo Edera, Davide Piotti, Giovanni Savorana, Tommaso Seresini, Alessandro Civeriati, Marta Macchi)
- 24 BSc Students (Elisa Tamborini, Renato Coretti, Aurora Masuelli, Federico Comitani, Fabrizio Finozzi, Alessandro Fornasieri, Riccardo Bolis, Stefano Crotti, Davide Bugini, Stefano Aime, Marta Perego, Lidia Rossetto, Luca Zinnato, Alberto Dragoni, Giovanni Savorana, Tommaso Seresini, Marta Macchi, Riccardo Panza, Davide Bergamini, Valeria Cappuccio, Matteo Brizioli, Marco Ciccarelli, Jacopo Scocco, Liber Dorizzi)

## ATTIVITA' DI RICERCA E PUBBLICAZIONI SCIENTIFICHE

Dal 2007 dirigo un gruppo di ricerca all'interno del Dipartimento di Biotecnologie Mediche e Medicina Traslazionale. In questi dodici anni il mio gruppo ha prodotto numerosi lavori scientifici, anche in collaborazione con prestigiosi gruppi di ricerca stranieri. Gli interessi di ricerca, le principali collaborazioni attive, i finanziamenti ricevuti, i risultati raggiunti (pubblicazioni e seminari) sono descritti in dettaglio seguito.

### INTERESSI DI RICERCA

- Soft Matter (Structure, Dynamics, Rheology, Fluctuations, Instabilities)
- Biofisica (Cell motility and jamming, Internal cell dynamics and microrheology)
- Tecniche ottiche innovative (Light and X-ray Scattering, Quantitative Microscopy)
- Esperimenti in microgravità (ESA GRADFLEX and ESA NEUF-DIX)

### COLLABORAZIONI ATTIVE

IFOM-IEO (Giorgio Scita&Fabrizio d'Adda di Fagagna), ETH Zurich (Aldo Ferrari), University of Aberdeen (Francesco Ginelli), Syracuse University (M. Cristina Marchetti, Lisa Manning), Humanitas University (Roberto Rusconi), Queen Mary University of London (Isabel Palacios), Sapienza University (Roberto Di Leonardo), ENS Lyon (Thomas Gibaud), University of Palermo (Claudio Tripodo), University of Fribourg (Veronique Trappe), Federico II University of Naples (Raffaele Pastore), Utrecht (Willem Kegel), Leon-Guanajuato University (Ramon Castañeda-Priego&Marco Laurati), FORTH-Crete (George Petekidis), Heinrich-Heine-Universität Düsseldorf (Stefan Egelhaaf), Sapienza University (Francesco Sciortino), CNR (Emanuela Zaccarelli), ENS Lyon (Sergio Ciliberto)

### FINANZIAMENTI PER LA RICERCA

Si indicano sotto i fondi conseguiti. Si noti che laddove i progetti coinvolgono più di un partner, l'acifra indicata si riferisce solo all'unità di mia pertinenza.

- 2018-present --- Unit coordinator of the EU ERASMUS+ project ABCtoVLE, 25k€
- 2017-present --- Unit coordinator of the EU ERASMUS+ project SQELT, 43k€
- 2016 - 2018 --- PI of the FONDAZIONE CARIPOLO-REGIONE LOMBARDIA project "Light for Life (L4L)", 78k€
- 2016 - present --- Team member of the ESA Topical Team GRADFLEX2: 10k€
- 2015 - 2018 --- PI of the research contract with PROCTER&GAMBLE USA: 50k€
- 2012-2016 unit coordinator of the FIRB2012 project "Anisotropies and non equilibrium in soft matter: routes to the self assembly of advanced materials (ANISOFT)": 288 k€
- 2011-2015 team member of the PRIN2011 project "Building with DNA bricks: A combined experimental, numerical and theoretical study": 143k€
- 2009 - team member of the CARIPOLO 2008 project "Materials with passive optical memory realized by incorporating liquid crystals in three dimensional microstructures": 160 k€

9. 2009 - team member of the British Royal Society International Joint Project - "Soft matter models underpinning biological physics": 12 k€
10. 2008 - PI of the PUR 2008 seed project "Measurement of the elastic properties of liquid crystals with Differential Dynamic Microscopy (DDM)": 16k€
11. 2006 - PI of the ERC Marie Curie IEF "GMTS - Glassy Materials: Temporal and spatial heterogeneities close to dynamical arrest": 175 k€
12. 2005 - team member of the ESA Gradflex Topical Team: 20 k€
13. 2003-2007 team member of the "GRADFLEX - Gradient Driven Fluctuation Experiment in Microgravity" project of the European Space Agency: 484k€
14. 2001 - team member of the PRIN project "Investigation on the nature of the Soret effect and its relevance in hydrodynamic instabilities": 140k€

## TRASFERIMENTO TECNOLOGICO

1. Cofondatore dello spinoff ProXentia (development and marketing of label-free biosensors)
2. Consulente per la realizzazione di strumentazione avanzata per lo spazio, per il sizing di particelle e per test ottici (RUAG Aerospace, LS Instruments, Klinger, P&G)

## PREMI E RICONOSCIMENTI

1. 2018 Top Reviewers Award for Sentinels of Science of Publons: Top 1% for Physics
2. 2017 Top Reviewers Award for Sentinels of Science of Publons: Top Reviewer for the University of Milan Physics (general, Chemistry and Physics&Astronomy)
3. 2017 Outstanding reviewer, Physics Letters A
4. 2016 Top Reviewers Award for Sentinels of Science of Publons: Top 10% Physics& Astronomy
5. 2016 EPJ Distinguished Referee
6. Team Achievement Award - European Space Agency, space mission FOTON M3 (2006)
7. Young Scientist Award at the Italian Conference of the Physics of Matter (2001)

## SEMINARI, CONFERENZE, LECTURES

### LECTURES SU INVITO A SCUOLE INTERNAZIONALI

1. "Optical techniques for the investigation of soft matter", International school: "Water and water systems" 2nd Course: "Polymers and Soft Materials: Glasses, Gels and Networks" , 9-16 July 2019, Erice, Italy
2. "The jamming and unjamming transitions in dense cell collectives", International school: "Water and water systems" 2nd Course: "Polymers and Soft Materials: Glasses, Gels and Networks" , 9-16 July 2019, Erice, Italy
3. "Extracting scattering information from real space microscopy: a primer" 14th European Summer School on "Scattering Methods Applied to Soft Condensed Matter", June 19-26 2018, Carcans-Maubuisson, France
4. "Dynamics, structure and interactions in soft and biological matter", IFOM Summer School in Quantitative biology, July 18-29 2016, Milan, (Italy)
5. "Investigating particle motion with a microscope: real vs Fourier space", NSERC-CREATE Summer School in Cell Biophysics, July 18, 2012, Ottawa (Canada)
6. "Differential Dynamic Microscopy of Bacteria and Cells", NSERC-CREATE Summer School in Cell Biophysics, July 18, 2012, Ottawa (Canada)
7. "Dynamic Light scattering and Microscopy of Interacting Nanoparticles", Stella International School for Training and Experiments with Lasers and Laser Applications, June 18, 2012, Pavia (Italy)
8. "Optical microscopy and its use for the characterization of soft materials", Stella International School for Training and Experiments with Lasers and Laser Applications, June 20, 2011, Como (Italy)

### SEMINARI (17 INVITED, 3 KEYNOTE, 11 CONTRIBUTED) A CONFERENZE, MEETINGS & WORKSHOPS

9. (KEYNOTE) "Differential dynamic microscopy extracts multi-scale activity in complex fluids and biological systems", 33rd Conference of the European Colloid and Interface Society (ECIS), 8-13 September 2019, Leuven (Belgium)
10. (INVITED) "Tracking-free one- and two-point microrheology of soft materials" Symposium Soft Matter, Bioinspiration and Photonics, 29 May 2019, Messkirch Castle, (Germany)
11. "Tracking-free one- and two-point microrheology of soft materials", 9<sup>th</sup> Hellenic Society of Rheology

- Conference (HSR 2019), 23-27 June, 2019, Pythagoreion, Samos (Greece)
12. "Tracking-free one- and two-point microrheology of soft materials", The 5th International Soft Matter Conference (ISMC2019), 3-7 June 2019, Edinburgh (United Kingdom)
  13. (INVITED) "", MicroMotility 2019: International conference on Biological micromotility and bio-inspired micro-robotics, Istituto Veneto di Scienze Lettere e Arti, 25-29 March 2019, Venice (Italy)
  14. (KEYNOTE) "Differential dynamic microscopy microrheology: frequency-dependent moduli without tracking!", Annual European Rheology Conference 2018 (AERC 2018), Apr 17-20 2018, Sorrento (Italy)
  15. (INVITED) "Unjamming by flocking in epithelial cell monolayers", XLVII Winter Meeting on Statistical Physics 2018, Jan 7-10 2018, Puebla (Mexico)
  16. (INVITED) "Interplay of actin and microtubules cytoskeletons in the *Drosophila* oocyte", COST Workshop - Dynamics of Self-Organization: from colloids to biomaterials, Dec 4-5 2017, Barcelona (Spain)
  17. (INVITED) "Unjamming and flocking in jammed epithelia", FISMAT2017, October 1-5 2017, Trieste (Italy)
  18. (INVITED) "Endocytic reawakening of motility and flocking in jammed epithelia", 8th International Discussion Meeting on Relaxations in Complex Systems, July 23-28 2017, Wisła (Poland)
  19. Reawakening of motility in glassy confluent epithelia", 10th liquid matter conference LIQUIDS 2017, July 17-21 2017, Ljubljana (Slovenia)
  20. Endocytic reawakening of motility and flocking in jammed epithelia", Cell and tissue motility CECAM Workshop, May 03-05 2017, Lausanne (Switzerland)
  21. Endocytic re-awakening of the motility of jammed epithelia", 4th Workshop of the Complex Systems Group, Feb 10 2017, University of Milan (Italy)
  22. INVITED) "Structure and dynamics of epithelial cell monolayers", Trends in Nanotechnology, Sep 05-09 2016, Fribourg (Switzerland)
  23. (KEYNOTE) "Equilibrium and non-equilibrium fluctuations in soft matter", IMT12, 12th International Meeting on Thermodiffusion, May 30-Jun03 2016, Madrid (Spain)
  24. INVITED) "Direct observation of stress relaxation in foams", 101th congress of the Italian Physical Society (SIF), Sep 21-25 2015, Rome (Italy)
  25. (INVITED) "On the origin of compressed exponential relaxation in soft materials", TOSCALAB 1st meeting, July 10 2015, Como (Italy)
  26. "Viscoelasticity of nematic liquid crystals at a glance", International Soft Matter Conference 2013, September 15-19, Rome (Italy)
  27. "Phase behavior and critical activated dynamics of limited-valence DNA nanostars" CECAM workshop DNA-based self-assembly: theory, simulations and experiments, December 3-5 2013, Vienna (Austria)
  28. (INVITED) "Fourier-space microscopy reveals the dynamic properties of soft materials" Slonano 2012, October 24-26, Ljubljana (Slovenia)
  29. (INVITED) "Measuring viscoelasticity of liquid crystals at a glance", Workshop DNA in a Material World, Dipartimento di Fisica - "Sapienza" University of Rome, 5 February 03, 2012, Rome (Italy)
  30. (INVITED) "Principles of differential dynamic microscopy", ESA-ESTEC Workshop on Time Resolved Correlation Spectroscopy and Total Internal Reflection Scattering, January 10, 2012, Noordwijk aan Zee (Netherlands)
  31. "Differential dynamic microscopy of fluctuating liquid crystals", European Conference on Liquid Crystals ECLC 2011, February 6-11, Maribor (Slovenia)
  32. (INVITED) "Onset of convection in colloidal suspensions", Workshop on Thermophoresis, Hydrodynamic Instabilities and Thermoresponsive Particles", Cavendish Department, January 21, 2011, Cambridge (UK)
  33. (INVITED) "Differential dynamic microscopy: A novel tool for food science?", Danish Optical Society Annual Meeting November 25, 2010, Roskilde (Denmark)
  34. (INVITED) "Differential Dynamic Microscopy: a simple means to measure dynamics with a microscope", APS March Meeting, March 20, 2009, Pittsburgh (USA)
  35. (INVITED) "Near field speckles: a new tool for X-ray scientists", Gordon Research Conference, August 5-10, 2007, New Hampshire (USA)
  36. (INVITED) "Turbolenza in una scatola" Conferenza al Festival della Scienza 2005 November 2, 2005, Genova (Italy)
  37. "Giant fluctuations in microgravity: the GRADFLEX experiment", ELGRA Biennial Symposium and General Assembly, September 21-23, 2005 Santorini (Greece)
  38. "Shadowgraphic Study of Convection Onset in a Colloidal Suspension", Photon Correlation and Scattering Conference 2004, August 16-18, Amsterdam (Netherlands)
  39. "High Rayleigh number Soret driven convection in a colloidal suspension heated from above", IMT 5

(5TH International meeting on thermodiffusion), August 2002, Lyngby (Denmark)

*ALTRI SEMINARI E LECTURES SU INVITO (include Seminari Dipartimentali e Colloquia)*

40. "Complex fluids, biology and optics: a soft love", Physics Department, University of Vienna, May 16 2019, Vienna (Austria)
41. "Differential dynamic microscopy extracts multi-scale activity in complex fluids and biological systems", Beijing Academy of Sciences, April 10 2019, Beijing (China)
42. "Non-equilibrium fluctuations in complex fluids: the GRADFLEX and Giant-Fluctuations projects", Beijing Academy of Sciences, April 9 2019, Beijing (China)
43. "Research-based teaching", Jordan Institute for Science and Technology (JUST), September 25 2018, Irbid (Jordan)
44. "Research-based teaching", University of Jordan, September 24 2018, Amman (Jordan)
45. "Toccata e fuga: contatti, forze e movimenti in sistemi di cellule", Una Settimana Da Bio, September 6 2018, Segrate (Italy)
46. "Optical microscopy and light scattering: reconciliation after infidelity", Ecole Normale Supérieure, June 6 2018, Lyon (France)
47. "Equilibrium and Non-Equilibrium Fluctuations in Soft Matter", Ecole Normale Supérieure, June 5 2018, Lyon (France)
48. "Liquid, glassy and flocking states in epithelial monolayers", Institute Lumière et Matière, University of Lyon-1, June 1 2018, Lyon (France)
49. "Liquid, glassy and flocking states in epithelial monolayers", LyPhy, University of Grenoble, May 25 2018, Grenoble (France)
50. "Non-equilibrium fluctuations during diffusion in soft matter: the case for microgravity", DLR, May 15 2018, Cologne (Germany)
51. "Differential dynamic microscopy extracts multi-scale activity in complex fluids and biological systems", Biotechnology Center, TU Dresden, April 12 2018, Dresden (Germany)
52. "Unjamming by flocking in epithelial cell monolayers", HH-Universität, March 22 2018, Düsseldorf (Germany)
53. "Glassy dynamics, unjamming and flocking in dense epithelial cell monolayers", Faculty of Science of the Universidad de San Luis Potosi, Jan 16 2018, San Luis Potosi (Mexico)
54. "Equilibrium and Non-Equilibrium Fluctuations in Soft Matter", Institute of Physics of Universidad de San Luis Potosi, Jan 15 2018, San Luis Potosi (Mexico)
55. "How research can be linked to/infer from teaching", HERE Study Visit, May 30-31 2017, Milan (Italy)
56. "Tutti in fuga! Come una folla, uno stormo, le cellule", MeetMeTonight, September 29 2017, Milan (Italy)
57. "Endocytic reawakening and flocking in jammed epithelia", Federico II University, June 7, 2017, Naples (Italy)
58. "Toccata e fuga: contatti, forze e movimenti in sistemi di cellule", Una Settimana Da Bio, September 5 2017, Segrate (Italy)
59. "Scattering or microscopy? for those who can't decide", ETH, March 23 2015, Zurich (Switzerland)
60. "Digital Fourier Microscopy: Scattering information obtained by optical microscopy", Monday colloquium at the physics department of the University of Würzburg, December 1, 2014, Würzburg, (Germany)
61. "Misurare la materia soffice", workshop OFIS2014, 22 settembre 2014, Como (Italy)
62. "Viscoelasticity of nematic liquid crystals at a glance", école normale supérieure - May 13 2013, Lyon (France)
63. "Collective behavior of nanoparticles with limited valence", University of Luxembourg, December 11, 2012, (Luxembourg)
64. "All-optical characterization of biological processes: novel concepts in dynamic microscopy and label free biosensors" Quantitative Biology Seminar Series, Università degli Studi di Milano, Department of Biomolecular Science and Biotechnology December 20, 2011 Milano, (Italy)
65. "Dynamic light scattering from colloids, bacteria and liquid crystals by using a commercial microscope", University of Montpellier, Laboratoire de Colloïdes, Verres et Nanomatériaux, September 20, 2011, Montpellier (France)
66. "Dynamic microscopy of Soft Materials" Università dell'Insubria, Physics Department June 9, 2011, Como (Italy)
67. "Reflective Phantom Interface: un nuovo metodo label-free per la rilevazione di interazioni biomolecolari", Istituto Nazionale dei Tumori, April 12, 2011, Milano (Italy)
68. "Light scattering investigation of soft materials by optical microscopy", University of Ottawa, Physics Department November 18, 2010, Ottawa (Canada)
69. "Dynamic microscopy of colloids. New results and perspectives", University of Fribourg, Physics



- Department March 05, 2010, Fribourg (Switzerland)
70. "Dynamics and Pattern Formation in Colloidal Suspensions" University of Bayreuth, Department of Physics, February 02, 2010, Bayreuth (Germany)
  71. "Scattering with images: a new tool for soft matter science" University of Munich (LMU), Physics Department, January 27, 2009, Munich (Germany)
  72. "Differential Dynamic Microscopy: a simple means to measure dynamics with a microscope", University of Munich (LMU), Physics Department, December 11, 2008, Munich (Germany)
  73. "Near field x-ray speckles", Harvard University, Physics Department August 02, 2007 Cambridge (USA)
  74. "X-ray near field speckles", University of Montpellier, Laboratoire de Colloides, Verres et Nanomatériaux, December 12, 2006 (France)
  75. "X-ray near field speckles" New York University August 24, 2006 (USA)
  76. "Convective instabilities in complex fluids" University of Fribourg, Physics Department October 21, 2005, Fribourg (Switzerland)
  77. "X-ray speckle techniques", University of Fribourg, Physics Department October 20, 2005, Fribourg (Switzerland)

## PUBBLICAZIONI

### UNIQUE AUTHOR IDENTIFIERS

Scopus ID: 6508220772 (<http://www.scopus.com/authid/detail.uri?authorId=6508220772>)  
 ORCID: 0000-0003-0434-7741 (<http://orcid.org/0000-0003-0434-7741>)  
 Researcher ID: A-2286-2008 (<http://www.researcherid.com/rid/A-2286-2008>)  
 Google Scholar ID: 2lq2JPIAAAAJ (<http://scholar.google.com/citations?user=2lq2JPIAAAAJ>)

### PUBLICATION METRICS

- Total items in publication list: 63 (SCOPUS), 61 (ISI-WoS)
- **22 articles in high impact (IF>5) journals:** Nature Materials (2), Nature Physics (1), Nature Communications (3), Advanced Functional Materials (1), PNAS (4), Physical Review Letters (7), Biosensors and Bioelectronics (2), Current Opinions in Colloid&Interface Science (3)
- invited review articles: 6
- **h-index:** 26 (GScholar), 25 (SCOPUS), 24 (ISI-WoS)
- h-index without self-citations: 23 (SCOPUS)
- h-index without self-citations from all authors: 20 (SCOPUS)
- **citations:** 2014 (GScholar), 1481 (ISI-WoS), 1564 (SCOPUS)
- citations without self-citations: 1367 (SCOPUS)
- citations without self-citations from all authors: 1131 (SCOPUS)

### ARTICOLI IN FASE DI STAMPA

1. *Unjamming overcomes kinetic and proliferation arrest in terminally differentiated cells and promotes collective motility of carcinoma* – A. Palamidessi, C. Malinverno, E. Frittoli, S. Corallino, E. Barbieri, S. Sigismund, P.P. Di Fiore, G.V. Beznoussenko, E. Martini, M. Garrè, D. Parazzoli, I. Ferrara, C. Tripodo, F. Giavazzi, R. Cerbino, G. Scita, **Nature Materials**

### ARTICOLI IN FASE DI REVISIONE

2. *Functional transcription promoters at DNA double-strand breaks mediate RNA-driven phase separation of damage response factors* F. Pessina, F. Giavazzi, Y. Yin, U. Gioia, V. Vitelli, A. Galbiati, S. Barozzi, M. Garre, A. Oldani, A. Flaus, R. Cerbino, D. Parazzoli, E. Rothenberg, F. d'Adda di Fagagna, in review since January 2019 at **Nature Cell Biology**

### LISTA COMPLETA DI ARTICOLI PUBBLICATI (49 REGULAR ARTICLES, 6 REVIEW ARTICLES, 3 PROCEEDINGS)

3. F. Giavazzi, C. Malinverno, G. Scita, R. Cerbino, *Tracking-free determination of single-cell displacements and division rates in confluent monolayers* –, **Frontiers in Physics** 6 120 (2018)
4. Cerbino, R. (2018), 'Quantitative optical microscopy of colloids: The legacy of Jean Perrin', **Current Opinion in Colloid and Interface Science** 34, 47-58.
5. Cerbino, R.; Piotti, D.; Buscaglia, M. & Giavazzi, F. (2018), 'Dark field differential dynamic microscopy enables accurate characterization of the roto-translational dynamics of bacteria and

- colloidal clusters', *Journal of Physics Condensed Matter* 30(2).
6. Giavazzi, F.; Paoluzzi, M.; Macchi, M.; Bi, D.; Scita, G.; Manning, M. L.; Cerbino, R. & Marchetti, M. C. (2018), 'Flocking transitions in confluent tissues', *Soft Matter* 14(18), 3471-3477.
  7. Cerbino, R. & Cicuta, P. (2017), 'Perspective: Differential dynamic microscopy extracts multi-scale activity in complex fluids and biological systems', *J. Chem. Phys.* 147(11).
  8. Drechsler, M.; Giavazzi, F.; Cerbino, R. & Palacios, I. M. (2017), 'Active diffusion and advection in *Drosophila* oocytes result from the interplay of actin and microtubules', *Nat. Commun.* 8(1).
  9. Edera, P.; Bergamini, D.; Trappe, V.; Giavazzi, F. & Cerbino, R. (2017), 'Differential dynamic microscopy microrheology of soft materials: A tracking-free determination of the frequency-dependent loss and storage moduli', *Phys Rev Mat* 1(7).
  10. Giavazzi, F.; Edera, P.; Lu, P. J. & Cerbino, R. (2017), 'Image windowing mitigates edge effects in Differential Dynamic Microscopy', *European Physical Journal E* 40(11).
  11. Giavazzi, F.; Malinverno, C.; Corallino, S.; Ginelli, F.; Scita, G. & Cerbino, R. (2017), 'Giant fluctuations and structural effects in a flocking epithelium', *J. Phys. D: Appl. Phys.* 50(38).
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- Bellini, T.; Cerbino, R. & Zanchetta, G. (2012), 'DNA-based soft phases', *Top. Curr. Chem.* 318, 225-280, ISBN: 978-3-319-09616-2.
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- (2018) *Fisica per Medicina con applicazioni fisiologiche, diagnostiche e terapeutiche* G. Bellini, R.

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- (2019) Problemi di Fisica Biomedica R. Cerbino Edises, ISBN: 978-88-331-9039-6

## ATTIVITÀ DI VALUTAZIONE (nell'ambito di procedure di selezione competitive nazionali e internazionali)

- Reviewer for the Dutch LEaDing Fellows Programme (2019)
- Reviewer for Insubria University Postdoctoral grants (2018)
- Evaluation board NSERC EWR Steacie Fellowship (2017)
- Reviewer for Insubria University Postdoctoral grants (2017)
- Reviewer, MIUR - Italian Ministry for University and Research: Futuro in Ricerca 2012
- Reviewer, MIUR - Italian Ministry for University and Research: PRIN2013
- Reviewer, MIUR - Italian Ministry for University and Research: FARE2016
- Reviewer, MIUR - Italian Ministry for University and Research: Programma per Giovani Ricercatori "Rita Levi Montalcini" 2016
- Reviewer, ANVUR - National Agency for the Evaluation of Universities and Research: VQR2011-2014 (2016)
- Jury of the prize "Riscopri Alessandro Volt@", 3rd edition, Volta Centre, Como, Italy (2014)
- Admission Board, Specialization in Physical Med and Rehab Med, Univ. of Milan, Italy (2010)

## ATTIVITA' GESTIONALI, ORGANIZZATIVE E DI SERVIZIO

### Incarichi presso Università degli Studi di Milano

- 2019-oggi: Programme Committee European University Alliance 4EU+
- 2017-oggi: Member (Representing LaStatale) of the LERU e-learning group
- 2017 - 2018: Delegato del Rettore G. Vago per lo sviluppo di metodologie didattiche innovative
- 2017: Call for tender committee member (1.3Meuros) for microscopy instrumentation
- 2016-oggi: Comitato Direttivo della piattaforma di imaging NOLIMITS
- 2015-2019: Comitato Direttivo del servizio linguistico SLAM
- 2015-oggi: Comitato Direttivo della Facoltà di Medicina e Chirurgia
- 2014-oggi: Commissione centrale di ammissione per la International Medical School
- 2013-2018: Comitato Ordinatore International Medical School
- 2012-presente: Giunta del Dipartimento BIOMETRA
- 2010 - 2012: Giunta della Facoltà di Medicina e Chirurgia

### Altri incarichi

- Reviewer for the Dutch LEaDing Fellows Programme (2019)
- Reviewer for Insubria University Postdoctoral grants (2017 and 2018)
- Evaluation board NSERC EWR Steacie Fellowship (2017)
- Reviewer, MIUR - Italian Ministry for University and Research: Futuro in Ricerca 2012, PRIN2013, FARE2016, Programma per Giovani Ricercatori "Rita Levi Montalcini" 2016. (2013-present)
- Reviewer, ANVUR - National Agency for the Evaluation of Universities and Research: VQR2011-2014 (2016)
- Advisory panel for the Book Section of Physics Today (2016-present)
- Jury of the prize "Riscopri Alessandro Volt@", 3rd edition, Volta Centre, Como, Italy (2014)
- Review Editor for Frontiers in Physics, Soft Matter Section (2018-present)
- Review Editor for Frontiers in Physics, Condensed Matter Physics Section (2014-present)
- Programme committee for the Optical Sensors conference, OSA (2011)
- Admission Board, Specialization in Physical Med and Rehab Med, Univ. of Milan, Italy (2010)
- Final PhD committee and examiner of doctoral disputation: Chiara Bosisio (Milan Bicocca University), Valentina Quercioli (Milan Bicocca University), Gea Donzelli (Milan University), Tommaso Fraccia (Milan University), Jayaswal Gaurav (Padua University), Cristina Rea (Padua University), Jacopo Grilli (Padua University), Stefano Zamuner (Padua University), Carvacho Gonzalo Alfredo (Roma LaSapienza University), Cuevas Alvaro Andres (Roma LaSapienza University), Di Domenico Giuseppe (Roma LaSapienza University), Frangipane Giacomo (Roma LaSapienza University), Graziosi Marcello (Roma LaSapienza University), Rad Syed Adil (Roma LaSapienza University), Viggianiello Niko (Roma LaSapienza University)

University), Stefano Villa (Montpellier University).

#### Attività di reviewer per riviste internazionali

Profilo certificato disponibile su Publons: <http://publons.com/author/294787/roberto-cerbino>

172 reviews per 49 differenti riviste tra cui Nature Communications, Nature Microgravity, PNAS, PRL, Scientific Reports, Soft Matter, Biophysical Journal, PRE, PLOS ONE, EPJE, New Journal of Phys., JPCM, PCCP, Langmuir, Eur. Biophys. J., AIChE J.

#### Organizzazione di meeting scientifici

- 2018 Italian Soft Days, Padova, Italy (~150 participants)
- 2018 Soft Workshop, Milano, Italy (~10 participants)
- 2016 Italian Soft Days, Milano, Italy (~120 participants)
- 2014 Italian Soft Days, Roma, Italy (~130 participants)
- 2013 CECAM Int. Workshop "DNA-based self-assembly: theory, simulations and experiments", Wien, Austria (~50 participants)
- 2004 6th Int. Meeting on Thermodiffusion, Varenna, Italy (~150 participants)

Data

4 luglio 2019

Luogo

Milano