

**FORMATO EUROPEO  
PER IL CURRICULUM  
VITAE**



**INFORMAZIONI PERSONALI**

Nome

**ALIVERTI, ANDREA**

**ESPERIENZA LAVORATIVA**

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

**OTT. 2016 – OGGI**

Politecnico di Milano – Dipartimento di Elettronica, Informazione e Bioingegneria

Università

Professore Ordinario

Ricerca e Didattica

**DIC. 2010 – OTT. 2016**

Politecnico di Milano – Dipartimento di Bioingegneria

Università

Professore Associato

Ricerca e Didattica

**DIC. 1998 – DIC. 2010**

Politecnico di Milano – Dipartimento di Bioingegneria

Università

Ricercatore Universitario

Ricerca e Didattica

**GEN. 1994 – DIC. 1998**

Fond. Don Gnocchi Irccs – Centro di Bioingegneria

Istituto di Ricovero e Cura a Carattere Scientifico (Irccs)

Ricercatore

Ricerca

**ISTRUZIONE E FORMAZIONE**

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione
- Principali materie / abilità professionali oggetto dello studio
- Qualifica conseguita

**GEN. 1994 – DIC. 1996**

Politecnico di Milano

Bioingegneria

Dottore di Ricerca (PhD)

**Nov. 1985 – APR. 1992**

Politecnico di Milano

Ingegneria Elettronica

Laurea

<b>CAPACITÀ E COMPETENZE PERSONALI</b>	<p>LINGUA: ITALIANO</p> <p>ALTRE LINGUE</p> <p><b>INGLESE</b> Eccellente Eccellente Eccellente</p>
<ul style="list-style-type: none"> <li>• Capacità di lettura</li> <li>• Capacità di scrittura</li> <li>• Capacità di espressione orale</li> </ul> <p><b>ATTIVITÀ DI RICERCA</b></p>	<p>L'ATTIVITÀ DI RICERCA, SVOLTA PRESSO IL LARES - LABORATORIO DI ANALISI DELLA RESPIRAZIONE DEL TBMLAB (LABORATORIO DI TECNOLOGIE BIOMEDICHE), DI CUI SONO RESPONSABILE, RIGUARDA LE TECNOLOGIE BIOMEDICHE E LA BIOINGEGNERIA DEL SISTEMA RESPIRATORIO, IN PARTICOLARE</p> <ul style="list-style-type: none"> <li>- LA CONCEZIONE E LO SVILUPPO DI NUOVE METODOLOGIE E TECNOLOGIE VOLTE A MIGLIORARE LA DIAGNOSI E IL TRATTAMENTO DI PATOLOGIE DEL SISTEMA CARDIO-RESPIRATORIO, QUALI LA PLETISMOGRAFIA OPTOELETTRONICA, LA DOPPIA PLETISMOGRAFIA, L'OSCILLOMETRIA, SISTEMI INDOSSABILI PER IL MONITORAGGIO CARDIO-RESPIRATORIO</li> <li>- L'IMAGING DEL SISTEMA RESPIRATORIO (NUOVE METODICHE DI ELABORAZIONI DI IMMAGINI CT, MRI E ECOGRAFICHE DI POLMONE, VIE AEREE E DIAFRAMMA)</li> <li>- LA MODELLISTICA DEL SISTEMA RESPIRATORIO UMANO</li> </ul>
<b>CAPACITÀ E COMPETENZE RELAZIONALI</b>	<ul style="list-style-type: none"> <li>- RELAZIONE E COLLABORAZIONE CON GRUPPI DI RICERCA DI ELEVATA QUALIFICAZIONE, ACQUISITA NEL CORSO DI ANNI DI COLLABORAZIONI DI RICERCA SIA NAZIONALI CHE INTERNAZIONALI</li> <li>- TUTORING DI GIOVANI RICERCATORI E STUDENTI, ACQUISITA IN QUALITÀ DI RESPONSABILE DI 5 ASSEGNISTI DI RICERCA, E DI RELATORE DI 16 DOTTORANDI DI RICERCA, 100+ STUDENTI LAUREANDI MAGISTRALI E 90+ STUDENTI LAUREANDI.</li> <li>- RELAZIONE CON FIGURE PROFESSIONALI IN DIVERSI AMBITI (ACCADEMICO, SANITARIO E INDUSTRIALE) E CON DIVERSE COMPETENZE (INGEGNERISTICHE, MEDICHE, BIOLOGICHE)</li> <li>- CAPACITÀ DI COORDINAMENTO E ARMONIZZAZIONE IN AMBITO SCIENTIFICO, ACQUISITE IN QUALITÀ DI MEMBRO ATTIVO DELLA EUROPEAN RESPIRATORY SOCIETY (ERS), DOVE HO SVOLTO IL RUOLO DI ASSEMBLY HEAD (ASSEMBLY 4, SLEEP DISORDER BREATHING AND CLINICAL PHYSIOLOGY, 1000+ MEMBRI), MEMBRO DELL'EXECUTIVE COMMITTEE, MEMBRO DELLO SCIENCE COUNCIL. IN PASSATO HO RICOPERTO IL RUOLO DI ASSEMBLY SECRETARY (ASSEMBLY 4, 3 ANNI), CHAIRMAN DEL GRUPPO SCIENTIFICO "RESPIRATORY STRUCTURE AND FUNCTION" (3 ANNI).</li> </ul>
<b>CAPACITÀ E COMPETENZE ORGANIZZATIVE</b>	<ul style="list-style-type: none"> <li>-ORGANIZZAZIONE, GESTIONE E COORDINAMENTO, ACQUISITE NELL'AMBITO DEL CORSO DI <b>DOTTORATO DI RICERCA IN BIOINGEGNERIA PRESSO IL POLITECNICO DI MILANO</b>, DEL QUALE SONO COORDINATORE E RESPONSABILE (DAL 2014)</li> <li>- COORDINAMENTO DI UN GRUPPO DI RICERCA, ACQUISITO NEL CORSO DEGLI ANNI DI ATTIVITÀ DI RICERCA SCIENTIFICA PRESSO IL <b>LARES (LABORATORIO DI ANALISI DELLA RESPIRAZIONE)</b>, DA ME CREATO E DIRETTO PRESSO IL POLITECNICO DI MILANO).</li> <li>- REALIZZAZIONE DI PROGETTI DI RICERCA E DI FUNDRAISING PRESSO ISTITUZIONI PUBBLICHE E PRIVATE, ACQUISITE NEL CORSO DEGLI ANNI DI ATTIVITÀ DI RICERCA</li> </ul>

CAPACITÀ E COMPETENZE  
TECNICHE

- PROGETTAZIONE, REALIZZAZIONE E VALIDAZIONE DI SISTEMI E DISPOSITIVI INNOVATIVI PER MISURE FISILOGICHE E CLINICHE
- ANALISI ED ELABORAZIONE DI DATI, SEGNALI ED IMMAGINI
- DEFINIZIONE E REALIZZAZIONE DI PROTOCOLLI SPERIMENTALI

INDICI BIBLIOMETRICI  
(AGGIORNATI AL 22 LUGLIO  
2021)

- GOOGLE SCHOLAR (<http://scholar.google.it/citations?user=OZJAG2oAAAAJ&hl=it&oi=ao>)  
H-INDEX: 51; TOTAL CITATIONS: 9499; I10-INDEX: 160
- SCOPUS (<https://www.scopus.com/authid/detail.uri?authorid=7006361013>)  
H-INDEX: 38; RESULTS FOUND: 258; TOTAL CITATIONS: 5146
- ISI WEB OF SCIENCE (WEB OF SCIENCE RESEARCHERID: A-3901-2015);  
H-INDEX: 35; RESULTS FOUND: 388; SUM OF THE TIMES CITED: 4528

PUBBLICAZIONI

AUTORE DI

- 226 LAVORI ORIGINALI SU RIVISTE SCIENTIFICHE PEER-REVIEWED (LISTA COMPLETA SU PUBMED: <https://www.ncbi.nlm.nih.gov/myncbi/1DYPUSRWRB0AV/BIBLIOGRAPHY/PUBLIC/>)
- 4 LIBRI (EDITOR)
- 22 CAPITOLI DI LIBRO
- 15 BREVETTI (INVENTORE)

Lavori recenti (dal 2018 a ottobre 2021):

1. Protti A, Santini A, Pennati F, Chiurazzi C, Cressoni M, Ferrari M, Iapichino GE, Careno L, Lanza E, Picardo G, Caironi P, Aliverti A, Cecconi M. Lung response to a higher positive end-expiratory pressure in mechanically ventilated patients with COVID-19. *Chest*. 2021 Oct 16;S0012-3692(21)04100-3.
2. LoMauro A, Landoni CV, Frascini P, Molteni F, Aliverti A, Bertoli S, De Amicis R. Eat, breathe, sleep with Osteogenesis Imperfecta. *Orphanet J Rare Dis*. 2021 Oct 18;16(1):435. doi: 10.1186/s13023-021-02058-y.
3. Contini M, Angelucci A, Aliverti A, Gugliandolo P, Pezzuto B, Berna G, Romani S, Tedesco CC, Agostoni P. Comparison between PtCO<sub>2</sub> and PaCO<sub>2</sub> and Derived Parameters in Heart Failure Patients during Exercise: A Preliminary Study. *Sensors (Basel)*. 2021 Oct 7;21(19):6666.
4. Feletti F, Brymer E, Bonato M, Aliverti A. Injuries and illnesses related to dinghy-sailing on hydrofoiling boats. *BMC Sports Sci Med Rehabil*. 2021 Sep 30;13(1):118. doi: 10.1186/s13102-021-00343-8.
5. Pennati F, LoMauro A, D'Angelo MG, Aliverti A. Non-Invasive Respiratory Assessment in Duchenne Muscular Dystrophy: From Clinical Research to Outcome Measures. *Life (Basel)*. 2021 Sep 10;11(9):947. doi: 10.3390/life11090947.
6. LoMauro A, Gervasoni F, Andreoli A, Aliverti A. Respiratory function assessment at the time of a new respiratory virus pandemic. *Respir Med*. 2021 Oct;187:106570. doi: 10.1016/j.rmed.2021.106570. Epub 2021 Aug 10.
7. Benício K, Resqueti VR, Dias FAL, Pennati F, Aliverti A, Medeiros da Fonseca JD, Fregonezi GAF. Effects of diaphragmatic control on multiparametric analysis of the sniff nasal inspiratory pressure test and inspiratory muscle activity in healthy subjects. *PLoS One*. 2021 Jul 22;16(7):e0253132.
8. Tullio M, Aliboni L, Pennati F, Carrinola R, Pallechi A, Aliverti A. Computational fluid dynamics of the airways after left-upper pulmonary lobectomy: A case study. *Int J Numer Method Biomed Eng*. 2021 Jul;37(7):e3462. doi: 10.1002/cnm.3462.
9. Marques L, Fregonezi GAF, Marcelino AA, Dourado-Júnior MET, Sarmento A, Pennati F, Aliverti A, Resqueti VR. Thoracoabdominal asynchrony and paradoxical motion in Duchenne muscular dystrophy and healthy subjects during cough: A case control study. *Pediatr Pulmonol*. 2021 Jul;56(7):2136-2145. doi: 10.1002/ppul.25412.
10. Sarmento A, Fregonezi G, Lira M, Marques L, Pennati F, Resqueti V, Aliverti A. Changes in electromyographic activity, mechanical power, and relaxation rates following inspiratory ribcage muscle fatigue. *Sci Rep*. 2021 Jun 14;11(1):12475.
11. LoMauro A, Gandossini S, Russo A, Diella E, Pistinzi C, Marchi E, Pascuzzo R, Vantini S, Aliverti A, D'Angelo MG. Over three decades of natural history of limb girdle muscular dystrophy type R1/2A and R2/2B: Mathematical modelling of a multifactorial study. *Neuromuscul Disord*. 2021 Jun;31(6):489-497.
12. Pennati F, Borzani I, Moroni L, Russo MC, Faelli N, Aliverti A, Colombo C. Longitudinal Assessment of Patients With Cystic Fibrosis Lung Disease With Multivolume Noncontrast MRI and Spirometry. *J Magn Reson Imaging*. 2021 May;53(5):1570-1580.

13. Pennati F, Walkup LL, Chhabra A, Towe C, Myers K, Aliverti A, Woods JC. Quantitative inspiratory-expiratory chest CT to evaluate pulmonary involvement in pediatric hematopoietic stem-cell transplantation patients. *Pediatr Pulmonol*. 2021 May;56(5):1026-1035.
14. van Doorn JLM, Pennati F, Hansen HHG, van Engelen BGM, Aliverti A, Doorduyn J. Respiratory muscle imaging by ultrasound and MRI in neuromuscular disorders. *Eur Respir J*. 2021 Apr 16:2100137. doi: 10.1183/13993003.00137-2021.
15. Contini M, Sarmiento A, Gugliandolo P, Leonardi A, Longinotti-Buitoni G, Minella C, Vignati C, Mapelli M, Aliverti A, Agostoni P. Validation of a new wearable device for type 3 sleep test without flowmeter. *PLoS One*. 2021 Apr 16;16(4):e0249470.
16. Aliboni L, Pennati F, Gelmini A, Colombo A, Ciuni A, Milanese G, Sverzellati N, Magnani S, Vespro V, Blasi F, Aliverti A, Aliberti S. Detection and Classification of Bronchiectasis Through Convolutional Neural Networks. *J Thorac Imaging*. 2021
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18. Morais CC, Campos SL, Lima CS, Monte LJ, Bandeira MCP, Brandão DC, Costa EL, Aliverti A, Amato MB, Andrade AD. Acute Effects of Lung Expansion Maneuvers in Comatose Subjects With Prolonged Bed Rest. *Respir Care*. 66(2):240-247, 2021
19. LoMauro A, Aliverti A, Perchiazzi G, Frykholm P. Physiological changes and compensatory mechanisms by the action of respiratory muscles in a porcine model of phrenic nerve injury. *J Appl Physiol* (1985). [in press]
20. Antonelli A, Guizzoni D, Angelucci A, Melloni G, Mazza F, Stanzi A, Venturino M, Kuller D, Aliverti A. Comparison between the Airgo™ Device and a Metabolic Cart during Rest and Exercise. *Sensors (Basel)*. 15;20(14):3943, 2020
21. Aliboni L, Dias OM, Pennati F, Baldi BG, Sawamura MVY, Chate RC, Carvalho CRR, de Albuquerque ALP, Aliverti A. Quantitative CT Analysis in Chronic Hypersensitivity Pneumonitis: A Convolutional Neural Network Approach. *Acad Radiol*. 2020 [in press]
22. Cesareo A, Nido SA, Biffi E, Gandossini S, D'Angelo MG, Aliverti A. A Wearable Device for Breathing Frequency Monitoring: A Pilot Study on Patients with Muscular Dystrophy. *Sensors (Basel)*. 2020 Sep 18;20(18):5346.
23. Angelucci A, Kuller D, Aliverti A. A home telemedicine system for continuous respiratory monitoring. *IEEE J Biomed Health Inform*. 2020 [in press]
24. Pennati F, Salito C, Borzani I, Carrafiello G, Morlacchi LC, Vaira V, Nosotti M, Palleschi A, Aliverti A. Quantitative Multivolume Proton-Magnetic Resonance Imaging in Lung Transplant Recipients: Comparison With Computed Tomography and Spirometry. *Acad Radiol*. 2020 [in press]
25. LoMauro A, Aliverti A, Joensen O, Karaca I, Nyström PW, Larsson A, Frykholm P, Sütterlin R. Comparison of different methods for lung immobilization in an animal model. *Radiother Oncol*. 150:151-158. 2020
26. Marques L, de Freitas Fregonezi GA, Santos IP, Marcelino AA, Medeiros da Fonsêca JD, Dourado-Júnior MET, Aliverti A, Sarmiento A, Resqueti VR. Effects of Positioning on Cough Peak Flow and Muscular Electromyographic Activation in Duchenne Muscular Dystrophy. *Respir Care*. 65(11):1668-1677. 2020
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28. Qi W, Su H, Aliverti A. A Smartphone-Based Adaptive Recognition and Real-Time Monitoring System for Human Activities. *IEEE Transactions on Human-Machine Systems*, 50(5), 414-423, 2020
29. LoMauro A, Righi I, Privitera E, Vergari M, Nigro M, Aliverti A, Frykholm P, Tarsia P, Morlacchi L, Nosotti M, Palleschi A. The impaired diaphragmatic function after bilateral lung transplantation: A multifactorial longitudinal study. *J Heart Lung Transplant*. 39(8):795-804. 2020
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31. Liu J, Kurepa D, Feletti F, Alonso-Ojembarrena A, Lovrenski J, Copetti R, Sorantin E, Rodriguez-Fanjul J, Katti K, Aliverti A, Zhang H, Hwang M, Yeh TF, Hu CB, Feng X, Qiu RX, Chi JH, Shang LL, Lyu GR, He SZ, Chai YF, Qiu ZJ, Cao HY, Gao YQ, Ren XL, Guo G, Zhang L, Liu Y, Fu W, Lu ZL, Li HL. International Expert Consensus and Recommendations for Neonatal Pneumothorax Ultrasound Diagnosis and Ultrasound-guided Thoracentesis Procedure. *J Vis Exp*. 2020 Mar 12;(157).
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33. LoMauro A, Mastella C, Alberti K, Masson R, Aliverti A, Baranello G. Reply to Chacko et al.: Limited Assessment of Respiratory Muscle Response to Nusinersen Treatment in Infants with Spinal Muscular Atrophy. *Am J Respir Crit Care Med*. 2020 Mar 1;201(5):624-626.
34. Cesareo A, Biffi E, Cuesta-Frau D, D'Angelo MG, Aliverti A. A novel acquisition platform for long-term breathing frequency monitoring based on inertial measurement units. *Med Biol Eng Comput*. 2020 Apr;58(4):785-804.
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36. Aliboni L, Pennati F, Royston TJ, Woods JC, Aliverti A. Simulation of bronchial airway acoustics in healthy and asthmatic subjects. *PLoS One*. 2020 Feb 10;15(2):e0228603.
37. Angelucci A, Aliverti A. Telemonitoring systems for respiratory patients: technological aspects. *Pulmonology*. 26(4):221-232. 2020
38. Qi W, Aliverti A. A Multimodal Wearable System for Continuous and Real-time Breathing Pattern Monitoring During Daily Activity. *IEEE J Biomed Health Inform*. 24(8):2199-2207. 2019
39. LoMauro A, Mastella C, Alberti K, Masson R, Aliverti A, Baranello G. Reply to Chacko et al.: Limited Assessment of Respiratory Muscle Response to Nusinersen Treatment in Infants with Spinal Muscular Atrophy. *Am J Respir Crit Care Med*. 2020 Mar 1;201(5):624-626.
40. Lima INDF, Sarmiento A, Goes MC, Mazzuca E, Lomauro A, Reid WD, Aliverti A, Fregonezi GAF. After-Effects of Thixotropic Maneuvers on Chest Wall and Compartmental Operational Volumes of Healthy Subjects Using Optoelectronic Plethysmography. *Front Physiol*. 2019 Nov 1;10:1376.
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- thoracoabdominal motion of healthy subjects: Randomized crossover study. *PLoS One*. 2019 Mar 19;14(3):e0213773.
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  56. Pennati F, Salito C, Borzani I, Cervellin G, Gambazza S, Guarise R, Russo MC, Colombo C, Aliverti A. Quantitative multivolume proton-magnetic resonance imaging in patients with cystic fibrosis lung disease: comparison with clinical indicators. *Eur Respir J*. 2019 May 2;53(5).
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  58. Cesareo A, Previtali Y, Biffi E, Aliverti A. Assessment of Breathing Parameters Using an Inertial Measurement Unit (IMU)-Based System. *Sensors (Basel)*. 2018 Dec 27;19(1).
  59. Nguyen AH, Perez-Rovira A, Wielopolski PA, Hernandez Tamames JA, Duijts L, de Bruijne M, Aliverti A, Pennati F, Ivanovska T, Tiddens HAWM, Ciet P. Technical challenges of quantitative chest MRI data analysis in a large cohort pediatric study. *Eur Radiol*. 2019 Jun;29(6):2770-2782.
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  66. Laviola M, Priori R, D'Angelo MG, Aliverti A. Assessment of diaphragmatic thickness by ultrasonography in Duchenne muscular dystrophy (DMD) patients. *PLoS One*. 2018 Jul 26;13(7):e0200582. doi: 10.1371/journal.pone.0200582.
  67. Sarmento A, Fregonezi G, Dourado-Junior MET, Aliverti A, de Andrade AD, Parreira VF, Resqueti V. Thoracoabdominal asynchrony and paradoxical motion in middle stage amyotrophic lateral sclerosis. *Respir Physiol Neurobiol*. 2019 Jan;259:16-25.
  68. Fregonezi G, Sarmento A, Pinto J, LoMauro A, Resqueti V, Aliverti A. Thoracoabdominal Asynchrony Contributes to Exercise Limitation in Mild Asthmatic
  69. Subjects. *Front Physiol*. 2018 Jun 13;9:719. doi: 10.3389/fphys.2018.00719.
  70. LoMauro A, Aliverti A. Blood Shift During Cough: Negligible or Significant? *Front Physiol*. 2018 May 28;9:501.
  71. LoMauro A, Aliverti A. Sex differences in respiratory function. *Breathe (Sheff)*. 2018 Jun;14(2):131-140.
  72. Sarmento A, Aliverti A, Marques L, Pennati F, Dourado-Júnior ME, Fregonezi G, Resqueti V. Multiparametric Analysis of Sniff Nasal Inspiratory Pressure Test in
  73. Middle Stage Amyotrophic Lateral Sclerosis. *Front Neurol*. 2018 May 2;9:306.
  74. LoMauro A, Frascini P, Pochintesta S, Romei M, D'Angelo MG, Aliverti A. Ribcage deformity and the altered breathing pattern in children with osteogenesis imperfecta. *Pediatr Pulmonol*. 2018 [Epub ahead of print]
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Il sottoscritto è a conoscenza che, ai sensi dell'art. art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali.

Inoltre, il sottoscritto autorizza al trattamento dei dati personali, secondo quanto previsto dalla Legge 196/03.

Data 31 Ottobre 2021

Firma

A large black rectangular redaction box covering the signature area.