

# Curriculum Vitae

## INFORMAZIONI PERSONALI

**Nome** LEONARDO  
**Cognome** D'ACQUISTO  
**Recapiti** viale delle Scienze - Edificio 8 - primo piano - Dipartimento di Ingegneria  
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## FORMAZIONE TITOLI

1988 – Master Degree (M.Eng) in Mechanical Engineering (November 1988) – Final mark: 110/110 magna cum laude.

1989 – Winner of the National selection for a scholarship granted by MURST (Italian Ministry for University and Research) for specialization activities abroad (see G.U.R.I. n° 15bis - 24/2/1989)

1996 – Winner of a "Science and Technology Agency (STA) Fellowship" offered in 1996 by the "Ministry of International Trade and Industry" of Japanese Government to conduct research activity at N.R.L.M. (National Research Laboratory of Metrology) in Tsukuba –Ibaraki (JAPAN)

## APPOINTMENTS

2017 to present: Full Professor, Dipartimento di Ingegneria, Università di Palermo (IT)  
2002 - 2017: Associate Professor, Dipartimento di Meccanica, Università di Palermo (IT)  
1992 - 2002: Researcher, Dipartimento di Meccanica, Università di Palermo (IT)

## AWARDS

1997 - A.I.A.S. – Capocaccia Award for the best paper from authors under 35 years, presented at XXVI AIAS (Italian Association for Experimental Analysis) held in Catania - 1997, entitled "Misura sperimentale delle caratteristiche di propagazione di un onda elastica longitudinale mediante l'uso della barra di Davies"

## ATTIVITA' DIDATTICA

ATTIVITA' DIDATTICHE NEL s.s.d. ING-IND/12

1997-2000 (Messina University)

degree level: former Italian five years' course in Materials Engineering

course: Measurements and Quality Control for Mechanical Production ("Misure e Controllo della qualità nella Produzione Meccanica")

course duration : 120 hours

2001 to 2004 (Palermo University)

degree level: former Italian five years' course in Mechanical Engineering

course: Mechanical and Thermal Measurements and Tests ("Misure meccaniche termiche e collaudi)

course duration : 120 hours

2001 to 2003 (Palermo University)

degree level: BSc in Mechanical Engineering

course: Mechanical and Thermal Measurements

ECTS: 6

2003- 2006 (Palermo University)  
degree level: BSc in Mechanical Engineering  
course: Virtual instrumentation laboratory ("Laboratorio di strumentazione virtuale")  
ECTS: 6

2004 to present (Palermo University)  
degree level: BSc in Mechanical Engineering  
course: Mechanical and Thermal Measurements  
ECTS: 9

2006 - 2022 (Palermo University)  
degree level: MSc in Mechanical Engineering  
course: Data acquisition and processing of mechanical quantities ("Sistemi di acquisizione ed elaborazione di grandezze meccaniche")  
ECTS: 9

2019 -2021 - Course: Mechanical and thermal measurement for biomedical engineering ("Misure meccaniche e termiche per la biomedica") , Biomedical Engineering (LM21) degree course (MSc), Dept. of Engineering, Università di Palermo;

2019 - 2022 - Course: Quality and safety measurements ("Misure per la qualità e la sicurezza") , Safety Engineering (L9) degree course (BSc), Dept. of Engineering, Università di Palermo;

2020 to present:- Course: Thermotechnical instrumentation and measurement ("Strumentazione e misure termotecniche") , ENERGY ENGINEERING AND RENEWABLE ENERGIES (L9) degree course (BSc), Dept. of Engineering, Università di Palermo;

2023 - Course: MECHANIC AND THERMAL MEASUREMENTS ("Misure meccaniche e termiche"), INGEGNERIA DELLE TECNOLOGIE PER IL MARE (L9) degree course (BSc), Dept. of Engineering, Università di Palermo;

Tutor of more than 50 MSc degree thesis.  
Tutor of 2 PhD students.

#### ALTRE ATTIVITA' DIDATTICHE

2003 (Palermo University)  
degree level: Master in Composite Materials  
module: Fiber optic sensors for monitoring and testing applications

2005 (Bari Polytechnic)  
degree level: Master in Industrial Research  
seminar: Force measurements by strain gauge load cell

2007 (Palermo University)  
degree level: Master in Marine design and technologies ("Progettazione tecnologie e design per la nautica")  
modules: Measurement and instrumentation ; Fiber optic sensors for monitoring and testing applications

2000-2005 (Sicilian Inter-University Postgraduate School for high school teachers) – Scientific Technological Area ("Area Scientifico-Tecnologica, Indirizzo n.9 Tecnologico, Classe 71 - Tecnologia e Disegno")  
courses: History and epistemology of measurement systems ; Mechanical measurement laboratory

2008 – 2012 : Teacher of several courses for technical and administrative staff of Palermo University dealing with safe use of machinery , workshop equipment etc.

## RICERCHE FINANZIATE

<b>Progetto di Ricerca</b>	<b>durata (mesi 7 periodo)</b>	<b>ruolo</b>
PRIN 2000: TECNICHE DI MISURA ELETTRONICHE PER LA DIAGNOSTICA DI COMPONENTI DI STRUTTURE	24	Responsabile Unità
PRIN 2005: CRITERI PER LA VALUTAZIONE DELL’AFFIDABILITÀ DELLA STRUMENTAZIONE PER IL MONITORAGGIO DI MISURE MECCANICHE E TERMICHE IN SITUAZIONI CRITICHE	24	Responsabile Unità
PRIN 2008: Sviluppo e caratterizzazione di nuove apparecchiature di misura della concentrazione di alcol etilico in aria espirata mediante l’impiego di sensori intelligenti	24	Responsabile Unità
PON0101605: Innovativa imbarcazione a sostentamento alare a basso consumo ed elevato confort per trasporto passeggeri	24	Partecipante
PON - ARS0100345 - acronimo progetto 4FRIALTY: Sensoristica intelligente, infrastrutture e modelli gestionali per la sicurezza di soggetti fragili - Area di specializzazione: Tecnologie per gli Ambienti di Vita. Misura: Programma Operativo Nazionale “Ricerca e Innovazione 2014-2020 Settore/Ambito di intervento: Tecnologie per gli Ambienti di Vita	01.06.2020 - 30.11.2023	Responsabile Scientifico per l’Università di Palermo

## PUBBLICAZIONE

BIBLIOMETRIC INDICATORS (at March, 2023)  
Scopus: Documents: 44; Number of citations: 490; h-index: 14;  
Google scholar: Number of Publications: 71; Number of Citations: 658; H-Index: 15  
Orcid ID: 0000-0002-4837-1797

Updated list of publications is available at the following URL:  
<http://www.scopus.com/inward/authorDetails.url?authorID=6603244043&partnerID=MN8TOARS>

## ATTIVITA' SCIENTIFICHE

Visiting fellow presso il National Research Laboratory of Metrology, Tsukuba (Giappone) dall'1.7.1996 al 23.12.1996 quale vincitore della borsa di studio "Science and Technology Agency (STA) Fellowship" offerta dal "Ministry of International Trade and Industry" del governo giapponese. Durante il soggiorno in Giappone ha svolto attività di ricerca dal titolo: *Study of the dynamic response characteristics of electrical strain gauges*, presso il laboratorio del Functional Measurement Group diretto dal Dr. A. Umeda .

Componente italiano del gruppo di collaborazione scientifica italo-giapponese codice 4JE1 approvato dal MURST e dal MAE nel protocollo di cooperazione scientifica e tecnologica italo – giapponese (1995-2000)

#### INVITED TALKS (from 2010)

2012 - Invited speaker at the bi-lateral Conference "New Frontiers in Rehabilitation - Technologies and Practice" July 4th, 2012 - Tel Aviv (Israel), organized by Italian Embassy in Tel Aviv in collaboration with the Israel-Italy Chamber of Commerce and Industry -

PEER REVIEWER for the following scientific journals:

- Measurement Science and Technology (IOP Publishing)
- International Journal of Solids and Structures (ELSEVIER)
- Journal of Intelligent Material Systems and Structures (SAGE)
- Measurement - Journal of the International Measurement Confederation (ELSEVIER)
- Experimental Techniques (Society for Experimental Mechanics)
- Sensors (MDPI)
- Reviews in Biomedical Engineering (IEEE)

#### AMBITI DI RICERCA

- Static and dynamic strain measurements with electrical resistance strain gauges- Static and dynamic strain measurements with fiber Bragg grating (FGB) strain gauges
- Strain measurements on surfaces with non-contact optical methods (moirè, speckle, grid method...)
- Temperature measurements with electrical and fiber optic sensors
- Thermographic methods for stress analysis
- Ultrasonic methods for non-destructive testing
- Heart beat rate and blood pressure measurements for biomedical applications
- Respiration rate measurements with wearable devices

#### ALTRE ATTIVITA

1999-2002 and 2005-2008 Member of the Board of Department of Mechanics ("Giunta di Dipartimento")- Palermo University  
2001 - 2005: Member of the Board of the Faculty of Engineering ("Giunta di Facoltà") - Palermo University  
2004-2007: Member of Palermo University scientific advisory board for local research funds allocation (Commissione scientifica consultiva di Ateneo fondi ex 60% MURST) for the field 09 - Industrial and Information Technology Engineering  
2011 - 2014: Delegate of the Dean of the Faculty of Engineering for internship and stage activities  
2011 to 2016: Vice Coordinator of the Study Programme Board ("Consiglio di Corso di Studi") in mechanical engineering  
2015 to 2017: Member of the Board of Chemical, Management, Information technology and Mechanical Engineering Department ("Giunta di Dipartimento")- Palermo University  
2016 - July 2022 : Head of the Study Programme Board ("Consiglio di Corso di Studi") in mechanical engineering  
2017 - 2022: Member of the Board of Engineering Department ("Giunta di Dipartimento")- Palermo University

2020 - Co-founder of TRIPIE 3PE\_tech, academic spin-off of Palermo University [https://it.linkedin.com/company/tripie-3pe-tech?original\\_referer=https%3A%2F%2Fwww.google.com%2F](https://it.linkedin.com/company/tripie-3pe-tech?original_referer=https%3A%2F%2Fwww.google.com%2F)

2022 – to present: Member of the Academic Senate of Palermo University