LEONARDO LAMANNA

CURRICULUM VITAE

dal 1994 Consorzio Interuniversitario AlmaLaurea
Un ponte fra Università e mondo del lavoro e delle professioni

Born / **25/03/1988**
Place of birth / **PUTIGNANO (BA)**
Nationality/ citizenship / **Italy**
Via V. Chiantera 59, 70044
POLIGNANO A MARE (BA)
Via vitantonio chiantera n.59, 70044
POLIGNANO A MARE (BA)
Driving licence / **B** / **Car available**
ID / **3127452** updated on **10/05/22**

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+393392191522

FOREIGN LANGUAGE SKILLS

europass

MOTHER TONGUE(S): **Italian**

ENGLISH					
GOOD	B2	B2	C1	C1	B2

DIGITAL COMPETENCES

Self-assessment grid europass
Information processing **Proficient user**
Communication **Independent user**
Content creation **Independent user**
Safety **Independent user**
Problem solving **Proficient user**

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** /

ECONOMIC SECTOR: **1.** biomedical / **2.** chemical-pharmaceutical industry / **3.** healthcare

CAREER FIELD: **1.** R&D and patents / **2.** Engineering and design / **3.** Management

AVAILABILITY FOR BUSINESS TRAVELS: **Yes, including relocation**

AVAILABILITY TO RELOCATE ABROAD: **Yes, even in non-European countries**

WORK EXPERIENCES

university research assistant
UNIVERSITÀ DEL SALENTO
Education, training, research and development
LECCE (LE)
01/2022 - TODAY

Main activities and responsibilities: RTDa Dipartimento d'Ingegneria dell'Innovazione ING-IND/22

Post Doc/ External collaborator
ISTITUTO ITALIANO DI TECNOLOGIA
Education, training, research and development
MILANO (MI)
09/2020 - TODAY

Main activities and responsibilities: https://elfoproject.eu/ | Company sector: Engineering and design

Post Doc
CNR (CONSIGLIO NAZIONALE DELLE RICERCHE)
Education, training, research and development
PISA (PI)
05/2020 - 09/2020

Main activities and responsibilities: http://web.nano.cnr.it/neurosens/
Employed as: other - fixed-length contract | Company sector: Engineering and design

PostDoc
ISTITUTO ITALIANO DI TECNOLOGIA
Education, training, research and development
LECCE (LE)
01/2020 - 05/2020

Main activities and responsibilities: Wearable devices in healthcare
Employed as: other - fixed-length contract | Company sector: Engineering and design

PhD
ISTITUTO ITALIANO DI TECNOLOGIA
Education, training, research and development
(LE)
11/2016 - 12/2019

Main activities and responsibilities: Design, fabrication and characterization of devices for wearable, implantable and IoT biosensors.
Employed as: other - fixed-length contract | Company sector: Engineering and design

R&D
GELESIS
Biomedical
CALIMERA (LE)
06/2016 - 12/2016

Main activities and responsibilities: Material characterization (rheological and swelling test) and evaluation of DDI (drug device interaction).
Employed as: other - fixed-length contract | Company sector: R&D and patents

Waiter and chef assistant
RESTAURANTS
Commerce, hotels, public activities (chemists shop included)
(BA)
01/2007 - 01/2016

Main activities and responsibilities: catering-related activities
Employed as: other - fixed-length contract

ACADEMIC STUDIES

MASTER COURSE

Università degli Studi di NAPOLI 'Federico II'

2020 - 2021

Faculty: CeSMA - centro servizi metrologici e tecnologici avanzati
Make - medtronic master advanced knowledge experience
specific field of the degree course: experts in health and medical devices

Age at graduation: 33 | Official duration: 1 years
Graduation date: 23/07/2021

PH.D.

2015 - 2020

Università del SALENTO
Engineering of materials, structures and nanotechnology
specific field of the degree course: ingengeria
PhD cycle: 32

Dissertation/thesis title: Flexible SAW device for IoHT application | Thesis supervisor: Massimo De Vittorio, Alessandro Sannino, Francesco Rizzi, Venkat Bhethanabotla | Dissertation/thesis keywords: Acoustic devices, biosensors

Age at graduation: 32 | Official duration: 3 years
Graduation date: 13/05/2020

MASTER'S DEGREE

2013 - 2016
CERTIFIED TITLE

Università del SALENTO
Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali
Biotecnologie mediche e nanobiotecnologie
LM-9 - 2nd level degree in Pharmaceutical, veterinary and medical biotechnologies

Dissertation/thesis title: synthesis and characterization of alginate-based microbeads for probiotic delivery | Dissertation/thesis subject: INGEGNERIA TISSUTALE E SCIENZA E TECNOLOGIE DEI BIOMATERIALI | Thesis supervisor: SANNINO ALESSANDRO|DEMITRI CHRISTIAN

Age at graduation: 28 | Official duration: 2 years
Final degree mark: **110/110 cum laude**
Graduation date: 12/04/2016

BACHELOR'S DEGREE

2007 - 2013
CERTIFIED TITLE

Università degli Studi di BARI
Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica
Biotecnologie per l'innovazione di processi e di prodotti
1 - Class of second level degree in Biotechnologies

Dissertation/thesis title: ISOLATION AND CHARACTERIZATION OF THE GSE-B1 GENE FOR GLUTAMINE SYNTHETASE IN WHEAT | Dissertation/thesis subject: BIOTECNOLOGIE GENETICHE E VEGETALI | Thesis supervisor: BLANCO ANTONIO

Age at graduation: 24 | Official duration: 3 years
Final degree mark: **91/110**
Graduation date: 06/03/2013

LEVEL-2 ACADEMIC DIPLOMA

1999
STUDIES NOT COMPLETED

Conservatorio di Musica "Nino Rota" di Monopoli
Course of study: cello

Last academic year of enrolment: 2006
Total number of exams passed: 5

SCIENTIFIC CERTIFICATE

MOLA DI BARI
2007

Scientific High School
'E. MAJORANA', MOLA DI BARI (BA)
School-leaving examination mark: **90/100**
Kind of secondary school diploma: Italian secondary school diploma

OTHER POSTGRADUATE STUDIES

ADVANCED TRAINING COURSE

2018

Public Speaking and Science Communication Workshop
Istituto Italiano di Tecnologia - Lecce
Course held by Jacopo Pasotti

2017 - 2018

24 CFU per concorso scuola
Università del SALENTO
(Italia)
24 CFU in disciplines anthropo-psycho-pedagogical, and educational methods and technologies

FOREIGN LANGUAGE SKILLS

DIPLOMAS AND CERTIFICATES

English Lingua inglese CLA, Università del Salento, 03 Jul 2017 , **Europass level B2**

INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Office Suite: (Highly Specialised) , Microsoft Office (Highly Specialised) | **Spreadsheets:** (Highly Specialised) | **Web Browser:** (Highly Specialised) | **Word Processors:** (Highly Specialised)

APPLICATION SOFTWARE

CAD - Assisted Design: (Intermediate) | **CAE Software:** COMSOL Multiphysics (Intermediate) | **Data Visualization:** MATLAB (Intermediate) | **Numerical analisys:** Origin (Highly Specialised)

COMPUTER PROGRAMMING

Programming languages: Python (Foundation) | **Web Programming:** (Foundation)

GRAPHICS AND MULTIMEDIA

3D graphics: Blender (Intermediate)

STUDIES AND EXPERIENCES ABROAD

UNITED STATES OF AMERICA
2019

Other experience acknowledged by the course of study (Scholar)
Place: **Tampa (United States of America)** | Language: English | Duration: 7 (months)
Development of flexible SAW device for biosensing application

UNITED KINGDOM
2011

Place: **Londra (United Kingdom)** | Language: English | Duration: 5 (months)
Working experience as a waiter at 'The Don - Tower bridge'

PROFESSIONAL ACCOLADES AND AWARDS

PRIZE
07/07/2020

3 Anni in 3 Minuti - 3A3M
Regional competition among Ph.D. of 2020. The goal is to develop a speech, describing the results of their research in 3 minutes.
www.accademiascienze.uniba.it/index.php/3-anni-i…

PRIZE
2019

Light Interaction with AlN-Based SAW Device Fabricated on Flexible and Silicon Substrate
Grading in list: 1st Place Best Poster Award
ieee-sensors2019.org/

ENROLLMENT IN THE PROFESSIONAL REGISTER
2016

Biologist

CONFERENCES AND SEMINARS

CONFERENCES
02/12/2021

IBC as a communication system for Edible electronics , Boston
www.mrs.org/meetings-e

CONFERENCES
28/10/2019

Light Interaction with AlN-Based SAW Device Fabricated on Flexible and Silicon Substrate , Montreal
IEEE sensor conference
ieee-sensors2019.org/

WORKSHOPS

Characterization and application of aluminum nitride-based flexible

26/09/2019

surface acoustic wave devices on polyethylene naphth , Università del Salento , LECCE
Oral presentation in 'LEbiotech 2019', event within of European Biotech week.

CONFERENCES
23/09/2019

Fabrication of a flexible meander antenna for SAW remote sensing applications , Rhodes - Greece
This work focuses on the manufacturing of an antenna on flexible substrates with total thickness of the order of hundreds of microns and skin-like compliance. The integration of the antennas to a piezoelectric Surface Acoustic Wave (SAW)-based device is expected to pave the way for a new class of battery-less device for health parameters monitoring.
www.mne2019.org/

CONFERENCES
08/07/2019

AlN-Based Flexible Surface Acoustic Wave Devices Fabricated on Transparent Polyethylene Naphthalate for Wearable Sensing , Seattle - Washington
www.mrs.org/icns-13

WORKSHOPS
11/10/2017

School of nanomedicine , PoliBA , BARI

PUBLICATIONS

JOURNAL ARTICLES
2022

Cataldi, Lamanna, Bertei, Arena, Rossi, Liu, Di Fonzo, Papageorgiou, Luzio, Caironi, An Electrically Conductive Oleogel Paste for Edible Electronics
Review: Advanced Functional Materials
Publisher: Wiley
doi.org/10.1002/adfm.202113417

JOURNAL ARTICLES
2021

Piro, Lamanna, Guido, Balena, Mariello, Rizzi and De Vittorio, Flexible SAW Microfluidic Devices as Wearable pH Sensors Based on ZnO Nanoparticles
Publisher: Nanomaterials
doi.org/10.3390/nano11061479

JOURNAL ARTICLES
2020

Lamanna, Rizzi, Guido, De Vittorio, Flexible dual-wave mode AlN-based surface acoustic wave device on polymeric substrate
Publisher: IEEE Electron Device Letters
10.1109/LED.2020.3025607

JOURNAL ARTICLES
2020

Lamanna, Rizzi, Bhethanabotla & De Vittorio, GHz AlN-based multiple mode SAW temperature sensor fabricated on PEN substrate
Publisher: Sensors and Actuators A: Physical
doi.org/10.1016/j.sna.2020.112268

JOURNAL ARTICLES
2020

Lamanna, Rizzi, Bianco, Agostini, Cecchini, De Vittorio & Bhethanabotla, Photoresponse of the AlN-based SAW device on polymeric and silicon substrates.
Publisher: IEEE sensors
doi.org/10.1109/JSEN.2020.2992814

JOURNAL ARTICLES
2020

Marasco, Niro, Lamanna, Piro, Guido, Algieri, Mastronardi, Qualtieri, Scarpa, De, Compact and flexible meander antenna for Surface Acoustic Wave sensors
Publisher: Microelectronic Engineering
doi.org/10.1016/j.mee.2020.111322

JOURNAL ARTICLES
2020

Lamanna, Rizzi, Bhethanabotla & De Vittorio, Conformable surface acoustic wave biosensor for E-coli fabricated on PEN plastic film
Publisher: Biosensors and Bioelectronics
doi.org/10.1016/j.bios.2020.112164

JOURNAL ARTICLES
2020

Lamanna, Rizzi, De Vittorio & Bhethanabotla, Light interaction with AlN-based SAW device fabricated on flexible and silicon substrate
Publisher: IEEE sensor
doi.org/10.1109/SENSORS43011.2019.8956526

ABSTRACT/REPLY/COMMENTS
2019

Lamanna, Rizzi, Das, Li, Bhethanabotla & De Vittorio, Characterization and Application of Aluminum Nitride-Based Flexible SAW Devices on Thermoplastic Polyethylene Naphthalat
Publisher: AIChE
aiche.confex.com/aiche/2019/meetingapp.cgi/Pap…

JOURNAL ARTICLES
2019

Lamanna, Rizzi, Guido, Algieri, Marras, Mastronardi, Qualtieri, De Vittorio, Flexible and Transparent Aluminum-Nitride-Based Surface-Acoustic-Wave Device on Polymeric Polyethylene Naphthalate
Publisher: Advanced Electronic Materials
doi.org/10.1002/aelm.201900095

JOURNAL ARTICLES
2018

Lamanna , Rizzi ,Demitri, Pisanello , Scarpa , Qualtieri , Sannino & De Vittorio, Determination of absorption and structural properties of cellulose-based hydrogel via ultrasonic pulse-echo time-of-flig
Publisher: Cellulose
doi.org/10.1007/s10570-018-1874-4

JOURNAL ARTICLES
2017

Demitri, Lamanna, De Benedetto, Damiano, Cappello, Siculella, Sannino, Encapsulation of Lactobacillus kefiri in alginate microbeads using a double novel aerosol technique
Publisher: Materials Science and Engineering: C
doi.org/10.1016/j.msec.2017.04.010

ABSTRACT/REPLY/COMMENTS
2016

Demitri, Lamanna, Damiano, Siculella, Sannino, ENCAPSULATION OF PROBIOTICS IN ALGINATE MICROBEADS
Publisher: Journal of Applied Biomaterials and Functional Materials
journals.sagepub.com/doi/pdf/10.5301/jabfm.500…

ABSTRACT/REPLY/COMMENTS
2012

Giancaspro, Nigro, Marcotuli, Lamanna, Gadaleta, Blanco, Isolation and characterization of cytosolic glutamine synthetase (GSe) genes in durum wheat
Publisher: Proceedings of the 56th Italian Society of Agricultural Genetics Annual Congress
www.geneticagraria.it/attachment/SIGA_2012/6_07.…

TEACHING ACTIVITIES

LESSONS/LECTURES
2022

Università del Salento
Corso di Biomateriali
Character: Docente

LESSONS/LECTURES
2018

ITS Biotecnologie Piemonte , Ivrea - Bioindustry Park
WEARABLE DEVICE: una tecnologia per il benessere della persona
Main Professor: Dott.sa Anna Maria Forlenza
Character: Docente