Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Bahareh Azimi, Ph.D.**
Address(es)	
Telephone(s)	
Fax(es)	
E-mail	
Nationality	
Date of birth	
Place of birth	
Gender	

Desired employment / Occupational field

(Fiber production, Electrospinning, Dry- Spinning, Wet-spinning, Tissue Engineering, Drug delivery, Nano technology, Smart &Functional Textile Materials)

Education

Dates	23/09/2010-23/11/2014
Title of qualification awarded	Ph.D in Textile Engineering
Principal subjects/occupational skills covered	Fiber production via dry-spinning. Drug loaded nanoparticles production,
Thesis Title	Effect of processing parameters on drug release of polycaprolactone fibers containing drug-loaded gelatin nanoparticles. Thesis Directors: Dr.Parviz Nourpanah, Dr.Mohammad Rabiei, Grade: 19/20
Name and type of organisation providing education and training	Amirkabir University of Technology (Tehran polytechnic)

Dates	23/09/2007-24/10/2009
Title of qualification awarded	Master (Msc) in Textile Engineering
Principal subjects/occupational skills covered	Color physics, Yarn texturizing
Thesis Title	Predicting the color variation of dope-dyed polyester yarns after texturing process, Thesis Directors: Dr.Mohammad Amani Tehran, Dr. Mohammad Reza Mohaddes Mojtahedi, Grade: 19.35/20
Name and type of organisation providing education and training	Amirkabir University of Technology (Tehran polytechnic)
Dates	23/09/2003-06/09/2007
Title of qualification awarded	Bsc in Textile Engineering
Principal subjects/occupational skills covered	Fiber production via Electrospinning
Thesis Title	Electrospinning of nylone, Thesis Directors: Dr.Esfandyar Ekhtiari, Grade: 20/20.
Name and type of organisation providing education and training	Yazd university

Academic employments

Type of business or sector	Research
Dates	01/05/2022-01/10/2023
Occupation or position held	Postdoctoral researcher (assegno di ricerca)
Main activities and responsibilities	Circular Management of Operating Room Waste in Orthopedics and Traumatology: diversification and reuse through recycling and 3D printing
Name and address of employer	Department of Translational Research on New Technologies in Medicine and Surgery
Type of business or sector	Research
Dates	01/05/2021 – 30/04/2022
Occupation or position held	Postdoctoral researcher (assegno di ricerca)
Main activities and responsibilities	Production of bioactive nanofibers for medical devices and coatings
Name and address of employer	Department of Civil and Industrial Engineering, University of Pisa, Pisa, Italy, Prof. Andrea Lazzeri
Type of business or sector	Research
Dates	01/04/2020 – 31/03/2021
Occupation or position held	Postdoctoral researcher
Project	Ecofunco (Grant agreement No 837863)
Main activities and responsibilities	Developing polysaccharide-based coatings and surface patterning of cellulosic tissues via electrospray technique.
Name and address of employer	Interuniversity National Consortiums of Materials Science and Technology (INSTM), Prof. Patrizia Cinelli
Type of business or sector	Research
Dates	01/05/2018- 31/03/2020
Occupation or position held	Postdoctoral researcher
Project	PolyBioSkin (Grant agreement No 745839)
Main activities and responsibilities	Production of Poly hydroxyalkanoate (PHA) ultrafine fibers using electrospinning and surface functionalizing of electrospun fibers with electrospryed chitin nanofibrils using electrospraying technique for wound dressing applications.
Name and address of employer	Interuniversity National Consortiums of Materials Science and Technology (INSTM), Prof. Andrea Lazzeri
Type of business or sector	Research

Dates	26/04/2017-25/04/2018
Occupation or position held	Postdoctoral researcher
Project	HLAM
Main activities and responsibilities	Production of bioactive nanofibers by electrospinning for different biomedical applications, Production of different PHAs nanofibers for texturing and functionalization of an intraperiotoneal robotic implant and skin contact products, Production of biodegradable nanoparticles for drug-delivery applications, Production of cellulose nanofibers for different applications
Name and address of employer	Interuniversity National Consortiums of Materials Science and Technology (INSTM), Civil and Industrial Engineering Department, University of Pisa, Pisa, Italy, Prof. Andrea Lazzeri, Dr. Serena Danti.
Type of business or sector	Research
Dates	From September 2015 to September 2016
Occupation or position held	Postdoctoral researcher
Project	(grant number 400430/2013-4) and (grant number: 309352/2015-0). And the Italian Ministry of Education, University and Research under grant 2010SNALEM “Development and application of new materials for ionizing radiation dosimetry.
Main activities and responsibilities	Production of the polymeric films containing different kinds of luminescent nanocrystals for dosimetric applications.
Name and address of employer	Brazilian National Research Council (CNPq), Prof. Susana Souza Lalic and Civil Industrial Engineering Department, University of Pisa, Pisa, Italy, Prof. F. d’Er-rico, Prof. L. Lazzeri and Prof. M.G. Cascon.

Teaching activities

Type of business or sector	Teaching
Dates	14/03/2022-present
Occupation or position held	CL
Subject	Lecturer: “Laboratory of Materials Characterization”, 9 CFU, Responsible: Prof. Andrea Lazzeri
Name and address of employer	University of Pisa, Pisa, Italy
Type of business or sector	Teaching
Dates	01/03/2021-present
Occupation or position held	Expert
Subject	Material science and engineering, DICI, University of Pisa
Name and address of employer	DICI, University of Pisa, Pisa, Italy
Type of business or sector	Teaching
Dates	2th semester 2017-present
Occupation or position held	CL
Subject	Lecturer: “Biomaterials”, 6 CFU, Responsible: Prof. Dr. Serena Danti
Name and address of employer	University of Pisa, Pisa, Italy.
Type of business or sector	Teaching
Dates	01/03/2021-01/06/2021
Occupation or position held	CL
Subject	Lecturer: “Laboratory of Materials Characterization”, 9 CFU, Responsible: Prof. Andrea Lazzeri
Name and address of employer	University of Pisa, Pisa, Italy
Type of business or sector	Teaching
Dates	1th semester 2021
Occupation or position held	CL

Subject	Lecturer: Biofluids and Materials interaction 3 CFU, Responsible: Prof. Dr. Serena Danti
Name and address of employer	University of Pisa, Pisa, Italy.
Type of business or sector	Teaching
Dates	01/09/2016-01/03/2017
Occupation or position held	Contract Professor (L)
Main activities and responsibilities	Lessons of Analytical Chemistry and Organic Chemistry
Name and address of employer	Textile engineering Department, Kar University of Ghazvin, Ghazvin, Iran.
Type of business or sector	Teaching
Dates	From October 2011 to June 2013
Occupation or position held	CL
Main activities and responsibilities	Lessons of Differential Equations
Name and address of employer	Mathematic Department, Amirkabir University of Technology (Tehran polytechnic), Tehran, Iran.
Type of business or sector	Teaching

Research expeditions

Type of business or sector	Visiting research
Dates	September 16 2019 to September 27 2019
Occupation or position held	Visiting researcher
Main activities and responsibilities	Training Melt- electrowriting of electroactive polymers and giving a seminar with the title of “Piezoelectric Ultrafine Fiber for Tissue Engineering Applications”.
Name and address of employer	Department for Functional Materials in Medicine and Dentistry, University of Wuerzburg, Wuerzburg, Germany, Prof. Poul Dalton
Type of business or sector	Visiting research
Dates	June 1 2018 to July 15 2018
Occupation or position held	Visiting researcher
Main activities and responsibilities	Training of 3D printing and laser cutting, Attending Multiscale Materials Design course
Name and address of employer	Civil and Environment Engineering Department, Massachusetts institute of technology, Boston, USA, Prof. Markus J. Buehler
Type of business or sector	Visiting research
Dates	September 2013 to September 2014
Occupation or position held	Visiting researcher
Main activities and responsibilities	Production of biodegradable and biocompatible fibers containing drug-loaded gelatine nanoparticles via dry-spinning method for controlled drug delivery applications.
Name and address of employer	Civil and Industrial Engineering Department, University of Pisa, Pisa, Italy, Prof. Luigi Lazzeri, Prof. Maria Grazie Cascone.

Funding

Dates	February 22-23, 2020
Title of qualification awarded	NANOCELL at 2nd International Academia Partnership Platform (AUT-InAPP)
Name and type of organisation providing education and training	Industrialization Center for Applied Nanotechnology (ICAN) and AmirKabir University of Technology

Participation in National, European and Global Projects as Project Engineer

Dates	2019-2020
Title of project	ECOFUNCO (Grant agreement No 837863): development of new bio-based coatings for application on cellulosic and plastic based for food and personal hygiene use.
Funding agency	Bio-Based Industries Joint Undertaking (JU) under the European Union Horizon 2020 research program (BBI-H2020)
Funding: PIs	Prof. Patrizia Cinelli, Dr. Serena Danti.
Dates	2018-2020
Title of project	PolyBioSkin (Grant agreement No 745839): development of skin-contact bio-polymer based product parts with increased performance and functionality derived from biomass and food waste
Funding agency	Bio-Based Industries Joint Undertaking (JU) under the European Union Horizon 2020 research program (BBI-H2020)
Funding: PIs	Prof. Andrea Lazzeri, Dr. Serena Danti, Prof. Maria Beatrice Coltelli.
Dates	2017-2019
Title of project	NANO-SPARKS: development of Nanocomposite Piezoelectric Materials for Cochlear Sensory-Neural Stimulation (MIT-UNIPI Project).
Funding agency	Private companies.
Funding: PIs	22.9 k$. PIs: Dr. Serena Danti (UNIPI), Prof. Markus J. Buehler (MIT)
Dates	2015-2016
Title of project	(grant number 400430/2013-4) and (grant number: 309352/2015-0). And the Italian Ministry of Education, University and Research under grant 2010SNALEM, Development and application of new materials for ionizing radiation dosimetry

Training, awards and honors

Dates	February 13-14, 2019
Title of qualification awarded	Life Cycle Assessment
Name and type of organisation providing education and training	University of Pisa
Dates	June 11-15, 2018
Title of qualification awarded	Multiscale Materials Design course
Name and type of organisation providing education and training	Civil and Environment Engineering, Massachusetts institute of technology, Prof. Markus J. Buehler
Dates	September 16-17, 2019
Title of qualification awarded	Melt-electrowriting
Name and type of organisation providing education and training	Department for functional materials in medicine and dentistry, University of würzburg
Dates	September 9-13, 2019
Title of qualification awarded	Session chair for session IX-OS34, entitled Biophysical stimulation of cells
Name and type of organisation providing education and training	30th Annual Conference of the European Society for Biomaterials (ESB 2019), Dresden, Germany

Academic Editors

Dates	October 2021-present
Academic Editor	Guest editor of special Issue “"Advanced Polymer-Based Composites for Biomedical Applications"
Name and type of organisation	Polymers, an open access Journal by MDPI
Dates	01/02/ 2021-present
Academic Editor	Guest Editor of Special Issue "New Frontiers for Bioactive Biomedical Polymers”
Name and type of organisation	Polymers, an open access Journal by MDPI
Dates	19/01/2021-present
Academic Editor	Guest Editor of Special Issue "Special Issue "Advanced Soft Materials in Electronic Sensor and Actuators"
Name and type of organisation	Electronics, an open access Journal by MDPI
Dates	21/04/2021-present
Academic Editor	Review Editor
Name and type of organisation	Frontiers in Sustainability - Sustainable Chemical Process Design,

Ad-hoc reviews

Dates	July 21, 2018
Title of the paper	Dynamic functional membranes of coated electrospun poly (vinylidene fluoride-co-hexafluoropropylene) with silk fibroin for nucleated bone formation
Name and type of organisation	Journal of the Mechanical Behavior of Biomedical Materials
Dates	Jan 24, 2020
Title of the paper	Moisture diffusion as a thread to polymer-based nanocomposites containing inorganic nanoparticles: a case study
Name and type of organisation	Polymers and Polymer Composites
Dates	August 23, 2020
Title of the paper	Folic acid-containing nanofibers by simultaneous process for transdermal drug delivery: preparation, characterization, and in vitro biocompatibility
Name and type of organisation	Journal of Industrial Textiles
Dates	November 25, 2020
Title of the paper	Preliminary Study of In Vitro Three-Dimensional Skin Model Using an Ovine Collagen Type I Sponge Seeded with Co-Culture Skin Cells: Submerged versus Air-Liquid Interface Conditions
Name and type of organisation	Polymers
Dates	February 3, 2021
Title of the paper	Bacterial Cellulose: Past, Present and Future
Name and type of organisation	Polymers
Dates	March 9, 2021
Title of the paper	Healing of Chronic Wounds by Copper Oxide-Impregnated Wound Dressings – Case Reports
Name and type of organisation	Medicina
Dates	March 16, 2021
Title of the paper	Synthesis and anti-inflammatory activities of glycyrrhetinic acid derivatives containing disulfide bond

Name and type of organisation	Bioorganic Chemistry
Dates	October 22, 2021
Title of the paper	Preparation of Electrospun Polyvinyl Alcohol/Nanocellulose 2 Composite Film and Evaluation of Its Biomedical Perform
Name and type of organisation	Gels

Supervising and mentoring activities: Undergraduate students

Dates	2021
Topic	Evaluation of the effect of chitin nanofibril on bacterial cellulose fibers in the repair of eardrum
University	Amirkabir University of technology
Name of student	Atefeh Rasti
Degree	Master student
Dates	2021
Topic	Development of scaffold platform for sinonasal tumors for personalized therapy
University	University of Pisa
Name of student	Tommaso Nencini, Giulia Dell'unto
Degree	Master students

Personal skills and competences

Mother tongue(s): Persian

Other language(s): English, Italian

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	Good		Good		Good		Good		Good	
Italian	A2		A2		A2		A2		A2	

(*) Common European Framework of Reference for Languages

Social skills and competences	Organizational skills, determination, self-motivated
Organisational skills and competences	Leadership Good experience in project and team management)
Technical skills and competences	Dry-spinning, wet-spinninf, Electrospinning, Melt-electrowritng, Polymeric film production via solvent casting and extrusion Molding, Drug-loaded polymeric Nano/micro particles production via desolvation and electrospray methods, 3D printing, Laser cutting
Computer skills and competences	Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™) Good command of Experimental design by response surface methodology (RSM) Good command of Statistical Package for the Social Sciences (SPSS)
Artistic skills and competences	Painting, carpet weaving, photography
Other skills and competences	Mountain Climbing, Cycling, Reading
Driving licence	Category B