



## Curriculum Vitae Crippa Martina

### Personal information

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Nationality Italian

Date of birth 05/08/1990

### Work experience

Date (from – to)	01/02/2018 – present
Name and address of the employer	Politecnico di Milano, Piazza Leonardo da Vinci, 32, 20133 Milano
Type of business or sector	Hospital research laboratory
Occupation or position held	<b>Ph.D. Student</b>
Main activities and responsibilities	Research activity: Engineering advanced 3D human vascularized bone models.
Date (from – to)	01/09/2017 – 31/01/2018
Name and address of the employer	Istituto Ortopedico Galeazzi, via Riccardo Galeazzi, 4, 20161, Milan
Type of business or sector	Hospital research laboratory
Occupation or position held	<b>Researcher</b>
Main activities and responsibilities	Research activity: Continuation of activities performed during the internship to write a scientific paper.

Date (from – to)	04/2016
Name and address of the employer	Istituto Ortopedico Galeazzi, via Riccardo Galeazzi, 4, 20161, Milan
Type of business or sector	Hospital research laboratory
Occupation or position held	<b>Intern</b>
Main activities and responsibilities	Research activity: Development of a 3D microfluidic device for the study of cancer cells extravasation.

**Education and training**

Date (from – to)	02/2014 →07/2017
Name and type of organization providing education and training	Master’s Degree in <b>Biomedical Engineering</b> , Politecnico di Milano
Principal subjects/occupational skills covered	Specialization in Cells and Tissues Engineering: <ul style="list-style-type: none"> <li>- Application of engineering methods to biology and biotechnology</li> <li>- Detailed study of micro-technologies, molecular biomechanics, micro fluid-dynamics, cellular systems and bio-artificial systems</li> </ul>

Date (from – to)	09/2009 – 02/2014
Name and type of organization providing education and training	Bachelor’s Degree in <b>Biomedical Engineering</b> , Politecnico di Milano
Principal subjects/occupational skills covered	Detailed study of theoretical and scientific aspects of mathematics and engineering applied to biomedical and biotechnological field

Date (from – to)	09/2004 – 07/2009
Name and type of organization providing education and training	<b>Scientific High School Diploma</b> , Liceo Classico e Scientifico G. Casiraghi - Cinisello Balsamo (MI)

**Personal skills and competence**

Mother tongue	<b>Italian</b>
Other Languages	<b>English</b>
Reading, listening, writing and verbal skills	Intermediate - ETS - TOEFL Diploma (2013) (internet based – 4 sections – total score:78)
Reading, listening, writing and verbal skills	C1- EF Standard English Test (2016)
Social skills and competence	Good ability to work in team acquired in university during the development of projects and in extra-university field working as teacher in a gymnastic sport association.

Organizational skills and competence	Good capacity for autonomous organization of work and establishment of priorities.
Technical skills and competence	Good ability to use image post-processing software ( <b>ImageJ, Imaris</b> ), statistical analysis software ( <b>SigmaPlot, R</b> ) and word processing applications and database management ( <b>Microsoft Office Package</b> ). Basic knowledge of programming software ( <b>C++, Matlab</b> ). Good ability to work within a biological laboratory especially in microfluidic field. Knowledge of cell culture ( <b>primary cell isolation and characterization from patient blood samples</b> ), histology, analysis techniques ( <b>Western Blot, BCA, PCR, immunofluorescence</b> ), images capturing ( <b>fluorescent and confocal microscopy</b> ) and characterization processes of materials, acquired both in university during lab classes and during the work at the hospital research laboratory.
Artistic skills and competence	Good skills in design and technical drawing.
Other skills and competence	Good knowledge of general concepts regarding prevention and safety at work and safety in chemical laboratories, acquired and attested during extracurricular courses in university. Good knowledge of general concepts regarding biohazard, chemical, carcinogenic and mutagenic, electrical risk in health, fire risk and emergency management, VDU risk, acquired and attested during courses in the workplace at the Istituto Ortopedico Galeazzi.
Additional information	<p>Master's Degree Thesis:  <i>"Engineered vascularized human early metastatic niche for the study of breast cancer cells extravasation."</i></p> <p>Bachelor's Degree Thesis:  <i>"Engineered pore graduated niches for the reconstruction of cells microgeometry."</i></p>
Hobby and interests	Reading, running, trekking, sports climbing and cooking.