

## Work Experience (Selected)

from 2017

R&D Engineer, Sensor Innovation  
Sensirion AG, Stäfa, Zurich, Switzerland

2013-2017

Post Doctoral Scholar,  
mechanical and process engineering  
Swiss Federal Institute of Technology (ETH Zurich),  
Switzerland

2013

Consultant,  
electronic technologies for railway applications.  
Dept. of Industrial Engineering  
University of Salerno, Italy

2007-2008

Intern,  
innovative EMI materials  
Avago Technologies, Turin, Italy

## Education (Selected)

2013

Ph.D. in Information Engineering  
University of Salerno, Italy

2009

Master Degree in Electronic Engineering,  
University of Salerno, Italy

1999

Diploma of Music Composition (4th year),  
Carlo Gesualdo Da Venosa Conservatory, Italy

## Publications (Selected)

R. Di Giacomo *et al.* "Biomimetic temperature sensing layer for artificial skins", **Science Robotics**, 2, Vol. 2, Issue 3, DOI:10.1126/scirobotics.aai9251, (2017)

Highlighted in M. S. Lavine, "Sensitive skin for feeling the heat", **Science**, Vol. 355, Issue 6324, pp. 490, (2017)

R. Di Giacomo *et al.*, "Plant nanobionic materials with giant temperature response mediated by pectin-Ca<sup>2+</sup>", **Proceedings of the National Academy of Sciences of the United States of America** Vol. 112, Issue (15), Pages 4541-4545 (2015)

Highlighted in R. Mark Wilson "Tobacco cells infused with carbon nanotubes feel the heat", **Phys. Today** Vol. 68, Issue (6), Page 15, (2015)

## Presentations (Selected)

### Gordon Research Conferences

Multifunctional Materials & Structures  
2016 Ventura CA, USA

R. Di Giacomo, *et al.* "Biomimetic temperature sensing layer for artificial skins"

### Materials Research Society Fall

2015 Boston, MA, USA

R. Di Giacomo, *et al.* "Pectin mediated temperature sensitive materials"

## Languages Italian, English, German (basic)

## Competences

Product development

Sensors Design

Analog Electronics Design

Flexible electronics

Bio-Sensors and Bio-materials Design

Data Science

## Skills

Critical thinking

Innovativeness

Inventiveness

Ingenuity

Resiliency

## Interests

Data Science, Artificial intelligence, Optics and Photonics, Robotics, Finance, Bioengineering, Material Science, Developmental Biology

## Workshops (Selected)

2015

TX-TL workshop, Invited by prof. Richard Murray  
Control & Dynamical Systems

**California Institute of Technology (Caltech)**,  
California, USA

## Patents (Selected)

C. Daraio, R. Di Giacomo *et al.* "Gel based thermal sensors."  
US2018080830 (A1)

## Seminars (Selected)

1 Dec 2015

R. Di Giacomo, "From cyberwood to artificial membranes biomimicking vipers' infrared sensing"

Special Environmental Sciences Seminar,

**Massachusetts Institute of Technology (MIT)**, MA, USA