

## □ Education (Selected)

- 2013-2017  
**Post Doctoral Scholar,**  
**Mechanical and Process Engineering**  
Swiss Federal Institute of Technology (ETH Zurich),  
Switzerland
- 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),**  
Potenza Conservatory, Italy

## □ Work Experience (Selected)

from May 2017  
**R&D Engineer, Sensor Innovation**  
**Sensirion AG, Stäfa, Zurich**

2007-2008  
**Internship**  
Research study and application of innovative EMI  
materials  
**Avago Technologies, Turin, Italy**

## □ Selected Publications

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)

## □ Selected Presentations at Conferences

**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

## □ Skills & Competences

- Innovativeness
- Creativity
- Scientific writing
- Invention extraction
- IP management
- Product development
- Interdisciplinary knowledge
- Work across multiple teams
- Critical thinking
- Goal oriented
- Resiliency

## □ Interests

Scientific Writing, Sensors, Electronics, Optics and Photonics, Robotics, Finance, Bioengineering, Material Science, Biology, Mozart

## □ Selected Workshops

2015  
TX-TL workshop, Invited by prof. Richard Murray  
Control & Dynamical Systems  
**California Institute of Technology (Caltech),**  
California, USA

## □ Selected Patents

R. Di Giacomo *et al.* "Gel based thermal sensors." European Patent Application: EP15195729.7, 2015.  
PCT/EP2016/056642 (2016).

## □ Selected Seminars

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**