

❑ 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-Ca²⁺", **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

• Product development

• Sensors

• Analog Electronics

• Data Science (Python)

• Biology

• Critical thinking

• Resiliency

• Innovativeness

• Inventiveness

• Ingenuity

❑ Interests

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

❑ 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