

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-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)

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

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