

## PERSONAL INFORMATION

Rossana Dell'Anna

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## WORK EXPERIENCE

from 01.03.2024 to today

### Head of the Spectroscopy Group

Fondazione Bruno Kessler (FBK), Sensors and Devices Center, Materials & Topology for Sensors & Devices Unit (MTSD), Via Sommarive 18, 38123, Povo, TN, Italy, [www.fbk.eu](http://www.fbk.eu).

- She coordinates the research activities of the spectroscopy laboratories for material engineering, device development, and testing in the SD Center. Research studies, papers and project writing, people training and coordination.

*Type of business or sector:*

Spectroscopy for quantum technology and nanotechnology; people, laboratories, and project management.

from 01.01.2020 to today

### Principal Investigator of the Raman and SPM laboratory

FBK, Sensors and Devices Center, MTSD.

- Raman spectroscopy and SPM (Scanning Probe Microscopy) analyses that she applies to quantum- and nano-technology and material characterisation in general. Research studies, industrial services, papers and projects writing, people training and coordination.

*Type of business or sector:*

Spectroscopy for quantum technology and nanotechnology; people, laboratory, and project management.

from 01.01.2021 to 29.02.2024

### Head of the Materials Characterization Group

FBK, Sensors and Devices Center, MNF.

- She coordinated the research activities of the surface science and materials characterisation laboratories of MNF (micro and nano-fabrication & micro and nano-characterization facility). She coordinated a team of 6 researchers working with different physical-chemical analytical techniques (SIMS, XPS, FIB-SEM, EDX, EBSD, SPM, Raman).

*Type of business or sector:*

Surface and materials science in micro- and nanotechnology; people and project management.

from 01.01.2004 to 31.12.2005

### Head of the Bioinformatics Group

Automated Reasoning System Division at former ITC-IRST, now FBK

- She coordinated the research activities of a team of 4 researchers in the field of machine learning and multivariate statistical analysis on high-throughput biomedical data.

*Type of business or sector:*

Bioinformatics. People and project management.

from 01.12.2001 to 31.12.2003

### Research Scientist

Bioinformatics Group of the Automated Reasoning System Division at former ITC-IRST, now FBK

- Image analysis and processing; Tissue Microarrays methodology; research studies, papers writing.

*Type of business or sector:*

Bioinformatics.

from 01.02.1999 to 01.04.2000

### Industrial European Researcher

Engin Soft Trading s.r.l., Trento, Italy

- Algorithm development and application for the optimisation of kinematic and dynamic properties of industrial machinery.

*Type of business or sector:*

Numerical analysis for Engineering.

## EDUCATION AND TRAINING

from 1995 to 1998

### Ph.D. Degree in Physics

EQF level 8

University of L'Aquila, Italy.

Ph.D. Thesis: "Study of the dynamic and structural properties of strong and fragile glasses by numerical simulation".

Advanced numerical simulation. Collective dynamic properties of disordered systems.

from 1985 to 1994

**Master Degree in Physics**, Graduated Summa cum Laude

EQF level 7

University of Trento, Italy.

Thesis: "Il metodo dei momenti per il calcolo della dinamica di sistemi disordinati".

Specialization in advanced numerical simulation applied to condensed matter physics. Simulation of light-matter interaction.

PERSONAL SKILLS

Mother tongue(s) Italian

Project-related expertise

- Color centers in diamond and in other wide-bandgap materials for quantum technologies;
- light-matter and ion-matter interaction;
- Machine learning and data mining applied to biomaterial science.

Professional associations

- Reviewer Board Member of Nanomaterials (ISSN 2079-4991);
- Member of the FBK working team for setting up the Gender Equality Plan (GeP), approved by the FBK Executive Board in January 2022;
- Since 2021, a member of the FBK working team for assessing the certification process for gender equity.

Skills

- highly expert in managing the interdisciplinary nature of the different research topics and projects she faced, always backed by strong theoretical knowledge;
- science dissemination for students and citizens.

Trento, October 12, 2024