

## PERSONAL INFORMATION

## Lorenza Ferrario



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## WORK EXPERIENCE

- **Current position – FBK MNF (Micro-Nano Facility ) head:** coordination of research and technical staff of the FBK sensor facility, including 3 cleanroom and several other laboratories for testing, dicing and characterization of silicon sensors; managing of the budget of the Facility; coordination with the other research units; management of access to the Facility by companies; coordination with FBK Budget, HR, Safety and Asset departments; planning Facility upgrades – equipment, spaces - according to new strategic technologies of FBK
  - 2017-2022: MNF infrastructure area manager: coordination of the laboratories – staff, uptime and production
  - 2010 – 2017: Management of the FBK cleanrooms
  - 2007 – 2010: senior researcher at MTLab FBK responsible for the R&D of silicon based photovoltaic technology; 1994-2006: junior researcher at the Microsystem Division ITC-irst, with competences on numerical simulation of process and devices
- Business or sector** Silicon technology, materials, nano-micro technology, infrastructure management, FAIR data management applied to nanofabrication

## EDUCATION AND TRAINING

Replace with dates (from - to)

- PhD in Engineering Sciences, University of Freiburg, Germany, 2007, with Title 'A Software System for the Advanced Management of Microsystem Cleanroom' Replace with EQF (or other) level if relevant
- Statistical Sciences, University of Bologna, 1988 (110/110 Magna cum laude)

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
Replace with name of language certificate. Enter level if known.					
German	A2	A2	A2	A2	A2
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages



Communication skills ▪ good communication skills gained through courses and my experience as area manager

Organisational / managerial skills ▪ leadership (currently responsible for a team of more than 40 people)

Job-related skills

- management of tenders for new cleanroom equipment: technical specification, move-in, installation and acceptance
- silicon technology – processing competences in etching, PVD, PECVD, characterization
- silicon photovoltaics
- ISO quality management
- Open data, FAIR data
- HSS management in laboratory with chemical risk
- Good planning gained by experience (management of several projects)
- Team management:
  - Team working course with Performando, March – May 2010
  - Management course with SOA School, October 2013 – May 2014 “Percorso di sviluppo manageriale”
  - Distributed leadership - 2021

Computer skills ▪ programming: good C, JAVA, SQL, DBMS  
▪ good Microsoft Office

Other skills ▪ silicon process simulation

Driving licence ▪ Driving license B

## ADDITIONAL INFORMATION

Publications  
Presentations  
Projects  
Conferences  
Seminars  
Honours and awards  
Memberships  
References

### Project management

- **FBK Project Manager for IPCEI Microelectronics 2019-2024**
- Coordination of the proposal submission for IPCEI ME/CNT (in progress)
- FBK coordinator of the Isi-CPV MIUR Project 2012-2015
- Technology transfer projects:
  - VdA2000, for Olivetti I-Jet, 2000-2002, for the development of a process for MEMS silicon ink jet printer head, project leader
  - Prosol, for Opto-I, early-stage production of silicon based photovoltaic cells based on industrial oriented process, 2008

### Teaching

- ICT PhD School, lectures on "Introduction to the design and simulation of electronic sensors and MEMS", lecturer, a.y.2002-2003 , 2005-2006, 2007-2008
- Master on NanoMicro, University of Trento-Fondazione Bruno Kessler, teaching assistant, a.y. 2006-2007, 2007-2008,2008-2009

### Networking and dissemination

- It-fab, Italian network of research cleanrooms, coordination group
- Expert group team of EuroNanoLab, European network of reserch cleanrooms
- FBK representative in ESIA/EECA
- Nanoinnovation2020-2024 – School on Nanotechomogies co-chair and organizer
- Collaboration with AIRI – webinars, position papers
- Several spillover actions in collaboration with IPCEI partners

### Software tools for cleanrooms



**Fabplan** – development and management of the first DBMS based software to manage cleanroom lots in FBK, recording process flows and recipes. Used in the FBK cleanroom in late 90. Based on proprietary DBMS

**WebFabIS** – development and management of a web software tool to manage wafer lots in FBK cleanrooms. Based on open tools and languages. The software has been used in FBK until 2021

**FABLIMS** – design of the current LIMS used to manage all the activities of the MNF laboratories, from wafer lots tracking to material characterization.

**Other**

- **June 2021 – September 2024:** Member of the FBK board, elected by FBK personnel for 4 years