

**MARIA CHIARA
UBALDI**

CURRICULUM VITAE

Nationality: Italian

Address:

Phone numbers:

email:

- Long-experienced technical and administrative leadership of national and international research projects in several fields, ranging from nanotechnologies to photovoltaics and photonic applications
- Project management experience in research project (workflow, workpackage and deliverables identification, timeline scheduling, staff management, risk/opportunity analysis)
- Management of financial resources by means of basic financial analysis (free cash flow) and investment opportunity evaluation.
- Deep knowledge of nanotechnology process in the lithographic field, overall vision of vertical integration of clean-room processes for the implementation of micro, nano-structured devices .

WORK EXPERIENCE

Current employment: from February 2009 in Fondazione CIFE

Senior group leader and project manager on novel tunable laser development

- Administrative management of small research structure, from basic financial analysis (free cash flow to monitoring of debt/credit situation, credit recovery and human resource management, administrative process optimization).
- Technical and administrative management of international extra-European and European projects.
- Management of informatics and communication (installation and maintenance of informatics facilities, shared digital archives,)
- Consultant for projects evaluation in B2Match contests (i.e. Concert Japan - Connecting and Coordinating European Research and Technology Development with Japan project)

From January 2003 to December 2008

Co-management of R&D in lithographic area in CoreCom (*Consortium for Researches in Optical Processing and Switching*)- Joint research laboratory between Pirelli S.p.A. and Politecnico di Milano, expired in year 2008.

- Acquisition of the main principles of clean room facility management during Pirelli Labs environment startup (2001-2002)
- Startup of clean room facility in CoreCom
- Development of lithographic micro and nano-processing
- Management of clean room optical/electronic lithographic tools and metrologic facilities
- Long-term collaboration in Pirelli projects on complex optical devices technological feasibility and implementation

From September 1997 to March 2002

R&D in free space optical devices for optical telecom applications

- Holographic techniques for optical storage devices,
- WDM and DWDM blocks in crystals and polymers for all-optical processing in telecom networks.

More than 25 international publications, 3 patents, one international book, oral and poster presentations in international and national meetings, tutoring in more than fifteen master degrees.

EDUCATION AND TRAINING

February 2009

Building certified energy auditor

Cognitive and informative action on the standard of energetic consume of one building, concluding in an exam for abilitation to enter CENED (certificazione energetica edifici Regione Lombardia) albo

Ordine degli Ingegneri della Provincia di Milano

C.so Venezia 16

Milano

ITALY

PhD degree in electronical and information engineering at Politecnico of Milano

Main thesis at CoreCom labs (see <http://www.deib.polimi.it/ita/1995-la-fondazione-del-corecom>)

Title: "**1550 nm volume holographic devices for optical communication signal processing**"

Tutor: Prof. Mario Martinelli

Minor thesis at CoreCom labs

Title: "**Study of algorithms for traffic control in ATM optical networks via Petri's net modeling**"

Tutor: Prof. Achille Pattavina

July 1997

Master degree in **electronical engineering** at Politecnico of Milano

Thesis at CoreCom labs (see <http://www.corecom.it>)

Title: "**Optical cross-correlation techniques for digital signals**"

Tutor: Prof. Mario Martinelli

July 1989

Scientific high school degree at Istituto Marcelline, Milan

July 1991

Piano degree at Conservatorio Giuseppe Verdi, Milano

FOREIGN LANGUAGES

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2	C2
French	A2	B1	A2	A2	A2

(*) Common European Framework of Reference for Languages

PERSONAL SKILLS

- **Social skills:** leader in R&D team, independent management of instrumentation and people, long-experience in training of junior personal to manage technical and simulation activities (tutoring of scientific degrees).
- **Computer competence:**
 - o OS: Windows, Mac, Unix
 - o Common softwares (Office package, graphic vectorial tools),
 - o Specific scientific software (GDSII design, process flow simulation, Matlab)
- **Artistic skills**
 - o Soloist/choral soprano singer

DRIVING B LICENSE

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003.

Data

10/08/2017

Firma

ANNEX

More than 25 international publications

For detail see https://www.researchgate.net/profile/Maria_Ubaldi/publications

International books

Boffi, P., Piccinin, D., Ubaldi, M.C., CoreCom, Milan, Italy; "Infrared Holography for Optical Communications - Techniques, Materials and Devices", Springer - Topics in Applied Physics:Vol 86, July 2002, isbn: 3-540-43314-7

International magazines

- EETimes - Sunny Bains, "Memory schemes tapped to demultiplex signals in 1,550-nm spectral window - Holography adapted to fiber communications", August 13, 2001, Issue: 1179, Section: TECHNOLOGY.
- WDM Solutions - Sunny Bains, "Holograms demux and broadcast", supplement to Laser Focus World, February 2001 - R&D Notes, p.9-10.
- Fibre Systems Europe, "Holographic trickery is made to measure for all-optical devices", Vol.5, No.1, January 2001 - R&D News, p.13.

Patents

- ES 2545030, "A solar concentrator for photovoltaic systems" (2015)
- EP 2965365, "Optical concentrator" (2013)
- EP 98202411.9, "Optical device for processing a predetermined N-bits sequence" (2000)