

PERSONAL INFORMATION

Luca Feltrin



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Website: <https://lucafeltrin.it>

Gender m | Birthday 25/03/1989 | Nationality Italian

WORK EXPERIENCE

November 2021 – current day (Senior Researcher)
November 2018 – October 2021 (Experienced Researcher)

Ericsson AB – Senior Researcher

📍 Isafjordsgatan 14F, 16440 Kista, Stockholm, Sweden

Backoffice contributor to 3GPP RAN2 standardization in NR and mMTC areas since Release 16. A particular focus was reserved in coordinating cross working group issues and preparing a solid concept basis for argumentation.

Two-year experience as team leader of the feature team handling MTC standardization activities. During this time I learned how to enable a successful and productive work environment for all team members, basic elements of project management and I completed the [Ericsson Leaders Core Curriculum \(LCC\) course](#).

Involved in 6G research and internal strategy discussions regarding NTN with a particular focus on satellites. During this time, I had the chance to be task leader in [6G-SKY](#) EU project with a focus on 3D architectures for terrestrial users.

In the context of the NTN activities, I developed a system level simulator for NTN scenarios based on MATLAB and employing several mathematical and statistical models for interference estimation and scheduling as well as a realistic global coordinate system and elements of orbital mechanics. This simulator allowed a better internal understanding of the NTN area.

Over 20 publications and filed patents were published during my time in Ericsson. A detailed list is maintained at my personal website <https://lucafeltrin.it/publications/>

January 2015 – October 2015

Maserati S.p.a. – Component Specialist Junior

📍 via Ciro Menotti 322, 41122 – Modena (Mo), Italy

Involved in Alfa Romeo “Giorgio” Project, more specifically in the design of the Giulia. My main activity consisted in following the software development of components related to the Driver Station, in particular the Instrument Cluster.

EDUCATION AND TRAINING

April 2023

Ericsson Leadership Core Curriculum (LCC)

The Leaders Core Curriculum (LCC) is Ericsson’s foundation-level leadership development program that focuses on developing the core leadership capabilities needed to drive performance. Over the course of this 15-week program, leaders develop their self-awareness, learn how to flex their leadership style, understand what drives and motivates a team, and how to influence and collaborate effectively across a matrix organization. ([link](#))

November 2015 – October 2018

Ph.D in Electronics, Telecommunications, and Information Technologies Engineering

📍 University of Bologna – DEI

Thesis Title: Long Range Low Power Wireless Communications Technologies for the IoT [\[DOI\]](#)

Peer-reviewed publications:

- L. Feltrin, R. De Bonis, S. Mijovic, C. Buratti, A. Stajkic, R. Verdone, **“Performance Evaluation of LORA Technology: Experimentation and Simulation”**, Proc. EuCNC 2016, June 27-30, Athens, Greece
- L. Feltrin, A. Marri, M. Paffetti, R. Verdone, **“Preliminary evaluation of NB-IOT technology and its capacity”** Proc. Dependable Wireless Communications and Localization for the IoT Workshop, September 2017, Graz, Austria
- L. Feltrin, C. Buratti, E. Vinciarelli, R. De Bonis, R. Verdone, **“LoRaWAN: Evaluation of Link- and System-Level Performance”**, IEEE Internet of Things Journal, April 2018, DOI: 10.1109/JIOT.2018.2828867
- G. Pasolini, C. Buratti, L. Feltrin, F. Zabini, C. De Castro, R. Verdone, O. Andrisano, **“Smart City Pilot Projects using LoRa and IEEE802.15.4 technologies”**, Sensors Journal, April 2018, DOI: 10.3390/s18041118
- L. Feltrin, G. Tsoukaneri, M. Condoluci, C. Buratti, T. Mahmoodi, M. Dohler, R. Verdone, **“NarrowBand-IoT: A Survey on Downlink and Uplink Perspectives”**, IEEE Wireless Communications Magazine, Submitted on January 2018
- L. Feltrin, M. Condoluci, T. Mahmoodi, M. Dohler and R. Verdone, **“NB-IoT: Performance Estimation and Optimal Configuration,”** European Wireless 2018; 24th European Wireless Conference, Catania, Italy, 2018, pp. 1-6.
- G. Pasolini, C. Buratti, L. Feltrin, F. Zabini, C. De Castro, R. Verdone, O. Andrisano, **“Smart City Pilot Project Using LoRa,”** European Wireless 2018; 24th European Wireless Conference, Catania, Italy, 2018, pp. 1-6.

Other Activities and Skills:

- Teaching Assistant of “Wireless Sensor Networks M” taught by Prof. Chiara Buratti and “Radio Networks M” taught by Prof. Roberto Verdone
- Early Career Investigators Representative for COST Action 15104 (IRACON)
- Period abroad at King’s College London (UK), analysis of NB-IoT performance with Massimo Condoluci and Mischa Dohler
- Organization of several conferences and events (ISWCS’17, PIMRC’18, Long Range IoT Hackathon 2018, and others)
- PCB design and Firmware development
- PhD supported by Telecom Italia Mobile (TIM)

PERSONAL SKILLS

Among my interests two that revealed to be useful in my work life are music and media production and web technologies. On a few occasions I produced informative videos and demos about my ongoing activities that had a professional and high-quality style which affected positively how the company was perceived. During my PhD I also managed the group IT infrastructure and several websites of the conferences we hosted as well as professor personal websites. I am driven to produce high-quality work as much as I can rather than focusing on quantity. I tend to produce work that is future proof, whether it means writing detailed documentation or considering how the work may be extended in the future. Rather than providing a quick but unprecise opinion on something I prefer to take my time and think about all possible implications of a certain issue within reasonable limit of time. I always try to make sure my comments are fact-based and have a strong foundation.

Mother tongue
Other Languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Interaction	Production	
Italian					
English	C1	C2	C1	C1	C1
Swedish	A1	A1	A1	A1	A1

IELTS: Mark 7.5, 22 April 2017

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