

Andrea Ferlini

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EDUCATION

University of Cambridge | PhD Computer Science
January 2019 – January 2022

- Working in mobile systems, wearables, and deep learning.
- Churchill College Scholar, funded by a donation of Nokia Bell Labs Cambridge.
- Supervised by Prof Cecilia Mascolo. Investigating wearable technology (earable) as hearing aid: understanding human behavioural cues, and performing speech separation and enhancement to let people with hearing disabilities have the same perception of the reality as non-impaired people.

University of California, Los Angeles (UCLA) | Visiting Researcher
June 2018 – July 2018

- Worked on vehicular networks and connected vehicles with Prof Mario Gerla.
- Volunteered at ACM MobiHoc '18.

University of Trento & Sorbonne University, UPMC
| EIT Digital Double MSc Telecommunication Engineering & Computer Science
September 2016 – October 2018

- 110H/110, class honours (rank 1/140 at Sorbonne University).
- Attended EIT Digital Summer School on Big Data Analytics hosted by Kungliga Tekniska Högskolan (KTH).
- Attended ACM MobiSys '18.
- Dissertation: "*Car-Fi applications and analysis*" – supervised by Prof Giovanni Pau.
 - Worked on connected vehicles (V2X), performance measurement for near-continuous network mobility scenarios (intermittent, high-speed-mobility connectivity).

University of Trento | BA Information and Business Organization Engineering
September 2013 – October 2016

- 102/110.
- Dissertation: "*Analysis and automation of the payment process for Solidarity Purchase Groups*" – supervised by Dr Adolfo Villafiorita.
 - Investigated ICT adoption for social and economic development, sustainability, food waste and recovery. UI design and development of a food eCommerce in Ruby and Ruby on Rails.

WORK EXPERIENCE

Sorbonne University - LIP6 NPA | Research Engineering
March 2018 – January 2019

- Prototyped a modified BitTorrent Client to provide a reliable transport and application layer to enable V2X communications. Tested in the wild, we were able to download up to 1.6 GB in less than 15 minutes accessing only urban community WiFi hotspots. Designed a measurement tool to analyze the performances of TCP with intermittent, high-speed-mobility connectivity (spoiler: TCP is not the protocol you want to use).

- Project used C and Python.

Fondazione Bruno Kessler - FBK | Software Engineering Intern February 2016 – September 2016

- Studied and analyzed the feasibility of a software project, developed an eCommerce (front and back-end).
- Project used Ruby and Ruby on Rails.

FCS Solutions | Network Engineering Intern July 2015 – September 2015

- Configured VLANs in a production environment, wrote ACLs and firewall configuration.

SKILLS

Languages **Experienced:** C, C++; **Competent:** Python, SQL; **Familiar:** Bash, Java, Ruby
Tools / Software Git, Common Unix Tools, Android, Linux, MacOS, Keras & PyTorch¹

PUBLICATIONS

- C-Continuum: Edge-to-Cloud Computing for Distributed AI, Andrea Ferlini, Davide Aguiari, Jiannong Cao, Song Guo, Giovanni Pau, 2019 IEEE Conference on Computer Communications (INFOCOM '19)
- In-Ear Aid for Speech Separation, Andrea Ferlini, Cecilia Mascolo, UK Mobile, Wearable and Ubiquitous Systems Research Symposium (MOBIUK '19)
- Submission still under review at ACM Conference on Embedded Networked Sensor Systems (SenSys 2019) – Submitted on April 12th
- Two submissions under review at ACM SIGCOMM 2019 Workshop on Mobile AirGround Edge Computing, Systems, Networks, and Applications (MAGESys 2019) – Submitted on May 14th
- The work done while I was a researcher at Sorbonne University will be submitted at ACM Conference on Mobile Computing and Networking (MobiCom 2020) in August.

RECOGNITION

- Awarded the Student Distinction Prize by Sorbonne University (October 2018) as best performing MSc student in their second year studying Computer Science.
- Awarded a Merit Scholarship (M7) by EIT Digital as distinction award during the 1st year of my MSc.
- Winner of Start Up Laboratory (SUL) as CTO of FlyingScarecrows.
- Awarded a Scholarship (C4) by EIT Digital every year during my MSc.
- Awarded a Merit Scholarship by Univeristy of Trento as distinction award during my Bachelor's degree.

OTHER

- Activities include cycling, running, squash, and bouldering.
- Churchill College MCR bartender for 2018–2019.
- Attended, as CTO of FlyingScarecrows, VT KNOWLEDGEWORKS, a start up competition organized by Virginia Polytechnic Institute and State University (21/08/17 - 25/08/17)
- Digital photographer with knowledge in Adobe Lightroom, Photoshop, and Illustrator.
- I speak fluently Italian and English (IELTS certification). I have an intermediate level in French.

¹Currently learning Keras and PyTorch for my PhD research