Lorena Qendro

Curriculum Vitae

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Education

10/2018–Present **Ph.D. Student in Computer Science**, *University of Cambridge*, Cambridge.
Supervisor: Prof. Cecilia Mascolo.
My research aims to investigate different techniques to efficiently and accurately provide uncertainty aware mobile sensing and apply them to system-level applications (i.e. sensor fusion, model and device selection).

2011–2014 **MEng Computer Engineering**, *University of Bologna*, Italy.
Thesis Title: Life style detection from social media.
Institute: Telekom Innovation Laboratories, Berlin.
Supervisors: Prof. Michela Milano, Dr. Tim Polzehl.

2006–2011 **BEng Computer Engineering**, *University of Bologna*, Italy.
Thesis title: Solutions for the deployment of an Eclipse plugin.
Supervisor: Prof. Enrico Denti.

Publications

○ **Lorena Qendro**, Jagmohan Chauhan, Cecilia Mascolo
Uncertainty Aware Mobile Sensing. MobiUK 2019

○ Nicholas D. Lane, Petko Georgiev, **Lorena Qendro**
DeepEar: Robust Smartphone Audio Sensing in Unconstrained Acoustic Environments using Deep Learning.UbiComp 2015

○ Nicholas D. Lane, Sourav Bhattacharya, Petko Georgiev, Claudio Forlivesi, Lei Jiao, **Lorena Qendro**, Fahim Kawsar
DeepX: A Software Accelerator for Low-Power Deep Learning Inference on Mobile Devices. IPSN 2016.

Experience

07/2018–09/2018 **Software Engineer**, *Geospock*, Cambridge.
Geospock ofers a location intelligence engine with the ability to discover new insights from legacy data gathered over years of operation or extreme data from the hyper-connected world of sensors and portable assets. I worked in the Analytics Team ideating and developing extrapol8, a Scala library that enables loading data from any geo-temporal region into an in-memory Apache Spark dataset, efficiently and in parallel.

02/2017– 05/2018	**Software Engineer**, *Future Cities Catapult*, London. Future Cities Catapult is specialized in urban strategies, connected cities and urban data science. I was working in the Data Science Team and lead the back-end development of Tombolo Digital Connector, an Open Source software platform for unifying data from various subject domains, using different spatial and temporal reference systems, and building the transformation layers to do this automatically. I was involved in the full life cycle of the software development as well as promoting the project to the appropriate Open Source communities.
08/2015– 02/2017	**Software Engineer**, *Ellexus Ltd*, Cambridge. Ellexus is an I/O profiling startup, which provides solutions for organizations involved in high performance computing. My role was to design and implement new functionalities for the existing software products. I worked on the UI and core code using different programming languages (mainly Java, C and Bash), and testing frameworks. I also followed the customer pipeline by directly interacting with them during evaluation, development and continuous support.
05/2015– 07/2015	**Research Intern**, *Nokia Bell Labs*, Dublin. I was part of a larger project studying how machine learning methods for processing mobile sensor data (from phones and wearables) can be performed within device constraints (such as energy and computation). During the internship, my task was to develop solutions and experiments focused on using deep learning on mobile platforms.
10/2013– 06/2014	**Research assistant**, *Telekom Innovation Laboratories, T-Labs*, Berlin. During my time at T-Labs, I researched the work for my master thesis. This work focused on the automatic life style detection of social media users. The aim was to detect and predict, using machine learning algorithms, the life style segments, resulting from the intersection of life motivation, technology attitude and income.

Technical skills

Platforms

Desktop	Linux, Mac OS X, Windows.

Programming languages

Advanced	Java.
Intermediate	Python, C, SQL.
Basic	Bash, R, JavaScript, Prolog, HTML

Development Tools

Versioning	Git, Subversion
Build	Gradle, Maven
Testing	JUnit.
Continues Integration	Jenkins, Wercker
ORM	Hibernate
Database	PostgreSQL(+ PostGIS), MySQL, DB2.
Others	Tensorflow, Weka, Theano

Languages

Albanian: Native - **Italian:** Fluent - **English:** Fluent - **German:** Basic

Awards

2018   **Nokia Bell Labs Studentship.** Scholarship for the undertaking of the Ph.D. in Computer Science at the University of Cambridge. (Unrestricted gift donation to the CS Department by Nokia Bell-Labs. No conflicts of interests with receiving any other fellowship.)

2015   **Best Paper Award.** Nicholas D. Lane, Petko Georgiev, Lorena Qendro *DeepEar: Robust Smartphone Audio Sensing in Unconstrained Acoustic Environments using Deep Learning.UbiComp 2015*

2013   **Study Abroad Scholarship**. European Erasmus Programme

Student Supervision

2018–present   Supervise course "Mobile and Sensor Systems". University of Cambridge, UK. Prof. Cecilia Mascolo.

2012   Taught welcome courses for students with additional educational debt, helping them in the transition from high school to university. University of Bologna, Italy.

Community Service

2020   Reviewer for The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT'20). Cancun, Mexico.

2020   Reviewer for Oxbridge Women in Computer Science Conference. Cambridge, UK.

2019–present   Director of Events. Cambridge University Entrepreneurs.

2019–present   Women@CL Graduate Representative. University of Cambridge, UK.

2019–present   Member of Community Relations Team. IEEE Pervasive.

2019   Pannelist, Poster Session Committee member for ACM S3 Workshop, MobiCom'19. Los Cabos, Mexico. Student Volunteer. IMWUT'19, London, UK.

2018–2019   President of Cambridge University Albanian Society.

2007–2013   Student Representative. Faculty Board, University of Bologna, Italy.

Personal Interests

Zumba Fitness - Reading - Travelling