

# Giulio Luzzati, Ph.D.

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## PERSONAL INFORMATION

Research Software Engineer  
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LinkedIn: <https://it.linkedin.com/in/giulio-luzzati-9bb79245>  
Born: 19/10/1984, Genova, Italy

## EDUCATION

**University of Genova, Genova, Italy**  
*Ph.D. in Computer Science* **Apr 2016**  
Thesis topics: resource allocation, communication networks, signal processing  
*Professional Engineering Qualification* **Oct 2012**  
*M.Sc. in Telecommunication Engineering* **May 2012**

## PROFESSIONAL AND ACADEMIC EXPERIENCE

**Cambridge Touch Technologies (CTT), Cambridge, United Kingdom**  
*Senior DSP Engineer* **Oct 2018 - Current**

CTT is a touch screen technology company, which IP can provide a cost effective and minimal overhead way to integrate pressure sensing capabilities to touchscreen technologies. At CTT I design and manage the realization of several projects and tools to diagnose, test and benchmark components of the hardware stack. On top of that, I was tasked with the rearchitecturing and realization of the company's software assets versioning and CI infrastructure.

**5G Innovation Centre, Guildford, United Kingdom**  
*Senior Software Engineer* **Nov 2017 - Oct 2018**

The 5GIC is a research centre within the University of Surrey, featuring one of the biggest 5G testbeds in the UK and carrying on research and standardization activity in close partnership with the largest players in the telecommunications sector. The 5GIC's testbed is a complete cellular network, used to test and showcase several research ideas ranging from radio technology to network concepts. At the 5GIC I was part of the core network development team. My contribution as a software engineer was to develop and maintain the code base for the core network.

**AKYA ltd, Swindon, United Kingdom**  
*DSP Software Engineer* **Dec 2016 - Nov 2017**

At Akyia I worked in a small team that develops frameworks and tools for a quicker and more flexible hardware design, specifically targeted at DSP applications.  
My role in the team is to design and develop algorithms and software components that expand and integrate the existing framework, as well as creating testing and data visualization tools

**DSP Lab, University of Genova, Genova, Italy**  
*Post Doctoral Research Fellow* **Jan 2016 - Nov 2016**  
*Ph.D. Student* **Jan 2013 - Dec 2015**  
*Research Fellow* **Oct 2012 - Dec 2012**

During my academic experience at the DSP Labs, as Ph.D. student and then research fellow, I carried out academic (research and teaching) activity, along with collaborations with SMEs and some of the key industries of Italy's communications and tech (Telecom Italia, Leonardo). My main area of research were resource allocation and mathematical optimization in communication networks and in signal processing

## TECHNICAL SKILLS AND TOOLS

*Programming Languages*

C++	●●●●	Python	●●●●
Matlab	●●●●	Latex	●●●●
Java	●●●●	Javascript	●●●●
PHP	●●●●	Bash	●●●●

*Network Function Virtualization and Service Oriented Architecture*

*Containerization (Docker, LXC)*

*Google Protocol Buffers and GRPC*

*Version control tools (Git, SVN)*

*Good knowledge of the Android SDK*

*Working knowledge of the Google Tensorflow framework*

*Agile software development*

*Advanced knowledge of GNU/Linux operating systems*

*Working knowledge of software compiler design*

**SCIENTIFIC SKILLS** Strong experience in computer networks  
Strong background in signal processing  
Statistics, mathematical optimization and data science  
Experience in machine learning  
Scientific writing and teaching