

Jonnahtan Saltarin

CS PhD student at University of Bern

University of Bern
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- *Experince with C/C++, Java and Python, as well as networking protocols like TCP/IP.*
- *Interested in content delivery, artificial intelligence and data science.*

Education

- 09.2013 - Present **PhD, Computer Science.**
University of Bern, Switzerland
- Working on content delivery in content-centric networking with [Prof. Torsten Braun](#)
 - Expected graduation: Fall 2017
- 09.2008 - 04.2011 **MSc, Computer Networks Engineering.**
Polytechnic University of Turin, Italy
- Master thesis at EPFL, Switzerland, with [Prof. Pascal Frossard](#) and [Prof. Gabriella Olmo](#)
 - GPA: 108/110
- 09.2003 - 08.2009 **BSc, Electrical Engineering.**
Central University of Venezuela, Venezuela
- Double degree program with Polytechnic University of Turin, Italy.
 - I graduated in the top 5% of my class, with a GPA of 16/20

Experience

- 09.2013 - Present **Research assistant.**
University of Bern, Switzerland
- Research areas: networking, content delivery, caching, multimedia
 - Developed a networking architecture that improves content retrieval in content-centric networks, using network coding (see [1, 2]).
 - Currently working on caching strategies for multimedia delivery.
 - Software development mostly with **C, C++ and Python**.
 - I am the webmaster of our research group ([website](#)).
- 01.2012 - 09.2013 **Software Engineer/Research Assistant.**
COPElabs, University Lusófona, Portugal
- Developed the [MTracker Android](#) application that keeps track of Wi-Fi connections, using **Java**.
 - Developed a **C++** application to test standardized communication over **TCP/IP** between intelligent transportation system devices ([NTCIP](#) standard).
- 09.2011 - 01.2012 **Software Engineering Intern.**
Fiat SpA, Italy
- Developed a **.NET** application to improve supplier's information management at Fiat's supplier quality department, using **C#, SQL, HTML** and **JavaScript**.

01.2011 - 05.2011 **Software Engineering Intern.**

Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland

- Developed a system for analysis and fusion of social and sensor data, using **Java**, **Hadoop** and data gathered through Twitter's and Weather Underground's web **APIs** (see [3]).

04.2010 - 12.2010 **Master Thesis Intern.**

Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland

- Developed a protocol for realtime media streaming over P2P networks, using **C++** (see [4]).

Technical skills

Programming C/C++, Python, Java, SQL, C#, bash.
Networking TCP/IP, Wireshark, network simulator NS3.
Web HTML, JavaScript, jQuery, CSS.
Frameworks Hadoop, Microsoft .NET.

Languages

Spanish Mother tongue (D)
English Fluent (C1).
Italian Intermediate Level (B2).
French Intermediate Level (B1).
Portuguese Intermediate Level (B1).

Other activities

09.2016 - Present **Deep Learning Class**, Online.

Stanford's [CS231n: Convolutional Neural Networks for Visual Recognition](#).

02.2008 - 04.2008 **Volunteer Experience**, Venezuela.

Teaching basic computer classes to third-age people.

Publications

- [1] Jonnahtan Saltarin, Eirina Bourtsoulatze, Nikolaos Thomos, and Torsten Braun. NetCodCCN: a Network Coding approach for Content Centric Networks. In *IEEE International Conference on Computer Communications (INFOCOM)*, April 2016.
- [2] Eirina Bourtsoulatze, Nikolaos Thomos, Jonnahtan Saltarin, and Torsten Braun. Content-Aware Delivery of Scalable Video in Network Coding Enabled Named Data Networks. *CoRR*, abs/1510.06659, September 2015.
- [3] Surrender Yerva, Jonnahtan Saltarin, Hojoung Jeung, and Karl Aberer. Social and Sensor Data Fusion in the Cloud. In *IEEE International Conference on Mobile Data Management (MDM)*, July 2012.
- [4] Jonnahtan Saltarin, Nikolaos Thomos, Eirina Bourtsoulatze, and Pascal Frossard. P2P Video Streaming with Inter-session Network Coding. In *IEEE International Conference on Multimedia & Expo (ICME)*, July 2011.