

# Jonnahtan Saltarin

Software Engineer / Research Assistant

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🌐 jonnahtan.me  
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- Experience with multiple programming languages.
- Expected PhD in Computer Science in September 2017.

## Experience

- 09.2013 - Present **Research Assistant.**  
University of Bern, Switzerland
- Developing novel video delivery architectures for future Internet architectures.
  - Studying caching strategies for video delivery.
  - Developing software prototypes with **C**, **C++** and **Python**.
  - Analysing traces and creating plots with **Pandas** and **Matplotlib**.
- 01.2012 - 09.2013 **Software Engineer and 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 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**.
- 04.2010 - 12.2010 **Master Thesis Intern.**  
Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
- Developed a protocol for realtime media streaming over P2P networks, using **C++** and **Matlab**.

## Education

- 09.2013 - 09.2017 **PhD, Computer Science.**  
University of Bern, Switzerland
- 09.2008 - 04.2011 **MSc, Computer Networks Engineering**, GPA: 108/110 (3.9/4.0).  
Polytechnic University of Turin, Italy
- 09.2003 - 08.2009 **BSc, Electrical Engineering**, GPA: 16/20 (3.2/4.0), Top 5%.  
Central University of Venezuela, Venezuela

## Skills

Programming C/C++, Python, Java, SQL, C#, bash, HTML, JavaScript.  
Data Science Pandas, Matlab  
Languages English, Spanish, Italian, Portuguese, French.

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## Courses

- 02.2016 **Taming Big Data: From management and curation to storage and analysis.**  
Winter School organized by CUSO, Champéry, Switzerland ([details](#)).
- 02.2017 **Data Science in Information Society: From Data Acquisition to Data Analysis.**  
Winter School organized by CUSO, Champéry, Switzerland ([details](#)).

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## Publications

- [1] Jonnahtan Saltarin, Eirina Bourtsoulatze, Nikolaos Thomos, and Torsten Braun. [Adaptive Video Streaming with Network Coding Enabled Named Data Networking](#). In *IEEE Transactions on Multimedia (TMM)*, Under submission.
- [2] Abinesh Ramakrishnan, Cedric Westphal, and Jonnahtan Saltarin. [Adaptive Video Streaming over CCN with Network Coding for Seamless Mobility](#). In *IEEE International Symposium on Multimedia (ISM)*, December 2016.
- [3] 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.
- [4] Eirina Bourtsoulatze, Nikolaos Thomos, Jonnahtan Saltarin, and Torsten Braun. [Content-Aware Delivery of Scalable Video in Network Coding Enabled Named Data Networks](#). *arXiv:1510.06659 [cs.NI]*, September 2015.
- [5] Surrender Yerva, Jonnahtan Saltarin, Hojong Jeung, and Karl Aberer. [Social and Sensor Data Fusion in the Cloud](#). In *IEEE International Conference on Mobile Data Management (MDM)*, July 2012.
- [6] 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.