

Jad DARROUS | Curriculum Vitae

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My Research during my Ph.D.

Ph.D. Topic.....

- I'm working on Data Management in a Geo-distributed Cloud environment. More specifically, we investigate efficient management of Virtual Machine Images (VMIs) and container images in the context of Geo-distributed cloud and Fog/Edge environments. **Keyword:** Data management, Geo-distributed Clouds, Wide-Area Networks, Distributed storage systems, Virtual Machine Images.

Research Project.....

- I'm part of DISCOVERY Initiative, a research project that explores the methodologies and algorithms needed to deploy and operate massively distributed cloud infrastructure.
- My advisors are Shadi Ibrahim and Christian Perez.
- I'm a member of Avalon team of Inria research center.

Publications in International conferences.....

- J. Darrous, S. Ibrahim, A.C. Zhou, C. Perez, "Nitro: Network-Aware Virtual Machine Images Management in Geo-Distributed Clouds" in *CCGrid* - May. 2018, Washington DC, USA. Acceptance rate of 20.8%

Publications in National conferences.....

- J. Darrous, "On the (In)Efficiency of IPFS for Geo-distributed Virtual Machine Images Management" in *Conférence en Parallélisme, Architecture et Système (CompAS)* - Jun. 2017, Sophia-Antipolis, France.

Papers reviews.....

- I reviewed papers as subreviewer in *Cluster 2017*, *CCGrid 2017* and *CloudCom 2017*.

Education

Academic Qualifications.....

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|---|-------------------------|
| ○ PhD in Informatics (ongoing) | Lyon, France |
| ○ <i>École Normale Supérieure (ENS) de Lyon</i> | <i>2016–2019</i> |
| ○ Master in Parallel and Distributed Systems | Grenoble, France |
| ○ <i>University Grenoble-Alpes, Graduation mention is Very Good</i> | <i>2014–2016</i> |
| ○ Bachelor in Computer Science | Damascus, Syria |
| ○ <i>Damascus University, Graduation mention is Very Good</i> | <i>2007–2012</i> |

Research Internships.....

- **A Programming and Data Model for In-Situ frameworks**
'Inria Grenoble Rhône-Alpes research center', Feb - Jun 2016
As a member of the DataMove team and under the supervision of Bruno RAFFIN, I did my Master's internship in the domain of in-situ analytics. The goal was to design a new Programming and Data Model for In-Situ frameworks to ease the representation of expressiveness of complex scientific workflow.
- **Improving the EASY-Backfilling scheduler using Machine Learning algorithms**
'Inria Grenoble Rhône-Alpes research center', May – Jul 2015
Improve the EASY-Backfilling scheduler in HPC environment using Machine Learning algorithm called Learning to Rank. An average improvement of 68% has been achieved in case the job run-time is already known (clairvoyant). My advisors were Denis TRYSTRAM and Eric GAUSSIER.

Notable Projects.....

o **One Month Master Project:** *NachOS: Mini Operating System - 2015*

In a group of 4 students, we implemented IO routines, multithread model, virtual memory, file system, and networking in an instructional Operation System called NachOS. Average ratings is 16 out of 20

o **Graduation project:** *Hand gesture recognition and Fingers detection - 2012*

Detect and recognize the hand, hand gesture and fingers gestures from Kinect depth sensor. Average ratings is 95 out of 100.

o **4 Months project:** *Opinion Mining and Sentiment Analysis - 2011*

extract the positives and negatives opinions about products and their features from a free-form text crawled from the web. Average ratings is 94 out of 100.

Previous Employment

o **Syrian Educational Publisher Co., for E-Publishing and E-learning**

Damascus, Syria

o *Software Developer*

Jan 2013–August 2014

I was a Software Developer (Web and Android) in small-sized company of 13 developers applying the Scrum agile methodology. Accomplished tasks:

- Extend the core libraries to cover more of the EPUB3 spec.
- Implement Unit Testing for the core libraries with code coverage of 70%.
- Develop 60% of the Android application (Epub3 Viewer).
- Implement the first prototype of the GWT website.
- Implements synchronization between applications running on different devices.

Technical skills

- o Expertise in C++ (programming competitions), Java (professional experience) and Python (research prototyping).
- o Good experience with (SQL and NoSQL) databases.
- o Good experience in network programming and multi-threading.
- o Familiar with the topics related to Natural Language Processing, Data Mining and Machine Learning.

Honors and Awards

- o PERSIVAL-Lab scholarship for academic excellence for the year 2015-2016.
- o I was an active member in programming competitions (2009-2014):
 - I represented Damascus University (Faculty of Informatics) in the ACPC programming contest - the regional tier of ICPC - within a team of 3 students, and we got the 8th, 14th, and 11th place consecutively from 2009 to 2011.
 - I coached the teams of Damascus University in the ACPC programming contest 2012 and 2013.
 - I was a judge in the Syrian Collegiate Programming Contest (SCPC) - the national tier of ICPC - in 2012 and 2013.
 - I was a problems setter in many national and local contests.
- o The 8th place in the fourth annual *Math Olympiad* contest held by Department of mathematics, Damascus University 2012.
- o We won, as a team of three, the 3rd place in *Fikra Competition* for our "Simple Geometry Solver" project, Damascus 2011.

Hobbies

- o I regularly practice cycling, skating, swimming and hiking.
- o I was Chief scouts of a groups of children (around 12 year old), 2007-2010.