STELLA BITCHEBE

3rd Year Ph.D. Student in Systems and Architecture

Cameroonian

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Education

Since March 2019	**PhD Student**
	Theme: Hardware enhancements for virtualization
	Supervisor: Pr. Alain Tchana
	Laboratory i3S, Côte d'Azur University, Nice, France
	Laboratory LIP, ENS Lyon, Lyon, France
2015 - 2018	**Diploma of Engineering in Computer Science**
	National Advanced Polytechnic School of Engineering of Yaounde (ENSPY), Cameroon
	Valedictorian of the graduating promotion
2012 - 2015	**Two Year University Degree in Mathematics (DEUG)**
	Faculty of Sciences, University of Yaounde 1, Cameroon
2012 - 2014	**Senior Statistics Technician**
	Sub-Regional Institute of Statistics and Applied Economics (ISSEA), Cameroon
	Vice Valedictorian of the graduating promotion
2011 - 2012	**Classes Préparatoires aux Grandes Ecoles**
	ENS Yaounde, Cameroon
	Best student of Class
2011	**Baccalaureate**
	General Leclerc High School (LGL), Yaounde - Cameroon
	Best student of the high school promotion

Work Experience

Teaching

January - June 2020 **(6 months)**	**L3 Assistant Teacher at ENS Lyon**
	Ecole Normale Supérieure de Lyon (ENS), Lyon - France
	TP in L3, department of computer science: conception and implementation of Practical Works, student monitoring.

September – October 2018 (2 months)	**L3 Assistant Teacher at Polytechnic Yaounde**
	National Advanced Polytechnic School of Engineering of Yaounde (ENSPY), Yaounde - Cameroon
	Course on virtualization in L3, department of computer engineering: class preparation, exam preparation and paper correction, student monitoring.

Research & SW Development

March - August 2018 (6 months)	**Research Internship at IRIT**
	Institut de Recherche en Informatique de Toulouse (IRIT) & Laboratoire de Recherche en Informatique de Bordeaux (LaBRI), France
	Supervisors: Pr. Alain Tchana & Pr. Laurent Réveillère
	Working Set Size estimation technique based on PML (Page Modification Logging)
July – August 2017 (2 months)	**Internship at AAG**
	Ashdown Advisory Group, Yaounde - Cameroon
	Development of a Business Intelligence module for the AAG's ERP (Enterprise Ressource Planning) X-Manager
November – December 2014 (2 months)	**Internship at MINESUP**
	Ministère de l'Enseignement Supérieur, Yaounde - Cameroon
	Realization of the statistical yearbook of the Ministry of Higher Education
February – May 2014 (4 months)	**Internship at MINESUP**
	Ministère de l'Enseignement Supérieur, Yaounde - Cameroon
	Design and implementation of a unified database application for national universities of Cameroon
September 2013 (1 month)	**Internship at MINESUP**
	Ministère de l'Enseignement Supérieur, Yaounde - Cameroon
	Analysis of statistical data of higher education in 2011 in Cameroon

Publications

➢ *International Conferences papers*

Extending Intel PML for Hardware-Assisted Working Set Size Estimation of VMs
Stella Bitchebe, Djob Mvondo, Alain Tchana, Laurent Réveillère, Noel De Palma
International Conference on Virtual Execution Environments, VEE 2021 (A Rank)

Everything You Should Know About Intel SGX Performance on Virtualized Systems

*Tu Dinh Ngoc, Bao Bui, **Stella Bitchebe**, Alain Tchana, Valerio Schiavoni, Pascal Felber, Daniel Hagimont*

Proceedings of the ACM on Measurement and Analysis of Computing Systems, Sigmetrics 2019 (A* Rank)

> *International Workshops papers*

Study Of Intel PML Effectiveness

__Stella Bitchebe__, Alain Tchana, Laurent Réveillère

13th EuroSys Doctoral Workshop, Eurosys 2019 (A Rank)

> *National Conferences papers*

Hardware Assisted Virtual Machine Page Tracking

__Stella Bitchebe__, Djob Mvondo, Alain Tchana, Laurent Réveillère, Noel De Palma

National Conference in Parallelism, Architecture and System (Compas) 2019

Posters

Hardware Assisted Virtual Machine Page Tracking

__Stella Bitchebe__, Alain Tchana, Laurent Réveillère

National Conference in Parallelism, Architecture and System (Compas) 2019

Study Of Intel PML Effectiveness

__Stella Bitchebe__, Djob Mvondo, Alain Tchana, Laurent Réveillère, Noel De Palma

13th EuroSys Doctoral Workshop (EuroDW 2019)

Technique D'Estimation Du Working Set Basee Sur Le Page Modification Logging (PML)

__Stella Bitchebe__, Alain Tchana, Laurent Réveillère

National Conference in Parallelism, Architecture and System (Compas) 2018

Talks

Talk to high school girls during the event "La science un métier de femmes"
ENS Lyon, France, March 2020

Hardware Assisted Virtual Machine Page Tracking: Compas 2019
Anglet, France, July 2019

Study Of Intel PML Effectiveness: EuroSys Doctoral Workshop (EuroDW 2019)
Dresden, Germany, March 2019

Hardware Features for Virtualization - GDR and ASF Winter School on Distributed Systems and Network

Village of Pleynet - Sept Laux, France, February 2019

Speech to the student of the Computer Engineering Department about my carreer: Polytechnic Yaounde (ENSPY)

Yaounde, Cameroon, September 2018

Services rendered to the Community

Student Volunteer at "Journées Cloud 2020": conception of the event website

ENS Lyon, November 2020

Sub-Reviewer for the CRI'19 Conference

Main Reviewer : Alain Tchana

Student Volunteer at Compas 2018

IRIT, July 2018

Responsabilities

➢ *Intern Supervision*

Augusta Mukam, M2 Student at National Advanced Polytechnic School of Engineering of Yaounde - Department of Computer Science, *Since February 2021*

Topic: Security policies related to the use of Intel SPP at the user-space level

Yves Kone, M2 Student at Sorbonne University of Paris - Department of Distributed Systems and Applications, *March - August 2020*

Topic: Applying Intel Sub-Page Permission to Memory Security

Gaspard Thevenon, L3 Student at ENS of Lyon - Department of Computer Science, *July - August 2020*

Topic: Everyone should benefit from Hardware Assisted Virtualization, not only the Hypvervisor

➢ *Other Responsabilities*

Member of the laboratory council, LIP laboratory, ENS Lyon

Member of the parity working group at LIP laboratory, ENS Lyon

Participation in the organization of the day: "La science : un métier de femmes"

Mobility and Collaborations

Since November 2019	**ENS Lyon**	
	Laboratory LIP, Team AVALON, Lyon, France	

January - October 2019	**Université Côte d'Azur**
	Laboratory i3S, Team SCALE, Sophia Antipolis, France
Mars - August 2018	**Univeristé de Toulouse**
	Laboratory IRIT, Team SEPIA, Toulouse, France

Awards and Distinctions

NEC Ph.D. fellowship grants 2021 (49k €)

ASPLOS Grants 2020

SRDS Grants 2019

Eurosys Grants 2019

Valedictorian of my graduating promotion ENSPY 2018

Laureate at the project "Huawei Seed For The Future" 2017

Major of the Entrance Competition at Polytechnic School of Yaounde (2015)

Award of the Best Student of the seven-year period at General Leclerc High School of Yaounde (2012)

Award of Scientific Excellence at General Leclerc High School (2011)

Award of the First Prize at the National Competition (dissertation on the importance of water) organized by the Ministry of Water and Energy in Cameroon (2011)

Personal Traits

Great adaptability and easy integration (mobility Yaounde - Toulouse - Nice - Lyon)

Great capacity for assimilation

Ability to work simultaneously on multiple projects and under pressure

Programming and Languages Skills

| Programming | C, C++, Python, Shell, Objective-C, Assembly |
| Languages | French: native language, English: Intermediate |

Personal Interests

I like cooking (specially decorate all the dishes I make and take a photo of them before tasting them)

I also like singing (I use to record myself covering some known songs and post them on social medias)

I also appreciate doing sport and a little bit cycling around