Stella Bitchebe

3rd Year Ph.D. Student in Computer Science (Systems and Architecture)

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Nationality: Cameroonian



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

Publications

Pending Submissions

Stella Bitchebe & Alain Tchana 49th IEEE/ACM International Symposium on Computer Architecture, ISCA '22 (A* Rank)

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 Proceedings of the 17th ACM SIGPLAN/SIGOPS 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

Buffer overflows

Yves KONE, **Stella Bitchebe**, Alain Tchana, Pierre Olivier Journées Cloud 2020

Everyone should benefit from Hardware Assisted Virtualization, not only the Hypervisor

Thévenon Gaspard, **Stella Bitchebe**, Alain Tchana, Vo Quoc Bao Bui **Journées Cloud 2020**

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 Basée Sur Le Page Modification Logging (PML)

Stella Bitchebe, Alain Tchana, Laurent Réveillère National Conference in Parallelism, Architecture and System (Compas) 2018

Talks

Presentation of the my project to the NEC team, during our first fellowship meeting (visio conference) Lyon, France, July 2021

Presentation of my work to Natacha Crooks during visit to our team at the invitation of Pr Alain Tchana for a talk on her work

ENS Lyon, France, July 2021

Presentation of my work during the "Séminaire CVS: Cloud, Virtualisation, Système" co-organized with Pr Alain Tchana and Pr Jalil Boukhobza teams

ENSTA-BRETAGNE Brest, France, June 2021

Processing of oral defenses of DS4H tutored projects

Univeristé Côte d'Azur, France, April 2020

Invited speaker 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

Work Experience

Teaching

January - June 2020 L3 Assistant Teacher at ENS Lyon

(6 months) 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 L3 Assistant Teacher at Polytechnic Yaounde

(2 months) 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 Research Internship at IRIT

(6 months) 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 Internship at AAG

(2 months) Ashdown Advisory Group, Yaounde - Cameroon

Development of a Business Intelligence module for the AAG's ERP

(Enterprise Ressource Planning) X-Manager

November – December Internship at MINESUP

2014 Ministry of Higher Education, Yaounde - Cameroon

(2 months) Realization of the statistical yearbook of the Ministry of Higher

Education

February – May 2014 Internship at MINESUP

(4 months) Ministry of Higher Education, Yaounde - Cameroon

Design and implementation of a unified database application for national

universities of Cameroon

Interns Co-supervision

March - September 2021 Augusta Mukam

(7 months) M2 Student at National Advanced Polytechnic School of Engineering of

Yaounde - Department of Computer Science

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

level

March – August 2020 Yves Kone

(6 months) M2 Student at Sorbonne University of Paris - Department of Distributed

Systems and Applications

Topic: Applying Intel Sub-Page Permission to Memory Security

July – August 2020 Gaspard Thevenon

(2 months) L3 Student at ENS of Lyon - Department of Computer Science

Topic: Everyone should benefit from Hardware Assisted Virtualization,

not only the Hypvervisor

Services rendered to the Community

"Mid-Career AMA" Session moderator at SOSP Diversity Workshop 2021

Online event, October 2021

Sub-Reviewer at FCGS Journal 2021

Main Reviewer: Alain Tchana Sub-Reviewer at CRI'21 Conference Main Reviewer: Alain Tchana

Sub-Reviewer at Compas 2021

Main Reviewer: Alain Tchana

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

ENS Lyon, November 2020

Moodle Platform developed for UNESCO during the 2020's lock down

I was assigned the task of customizing/designing the platform according to the graphic charter of UNESCO.

The aim was to provide a platform where teachers could offer thousands of free courses to students (who were then locked down during the COVID'19 pandemic).

The project was held in collaboration with Professor Alain Tchana, Dr Djob Mvondo and other engineers.

Organization of the day "La science : un métier de femmes"

ENS Lyon, Mars 2020

Sub-Reviewer at CRI'19 Conference

Main Reviewer: Alain Tchana Student Volunteer at Compas 2018

IRIT, July 2018

Administrative Responsabilities

Member of the laboratory council (Ph.D. Students Reprsentative), 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"

Awards and Honors

Laureate of the "Microsoft Research PhD Fellowship" program 2021 (15k \$)

Laureate of the program "L'Oréal-UNESCO For Women in Science" 2021 (15k €)

Winner of the "Concours Inria d'idées innovantes 2021" (With my Ph.D. advisor)

Laureate of the "NEC Student Research fellowship" program 2021 (49k €)

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)

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

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

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

Grants

OSDI Grants 2021 ACM SIGMETRICS Grants 2021 ASPLOS Grants 2020 SRDS Grants 2019 Eurosys Grants 2019

Programming and Languages Skills

Programming C, C++, Python, Shell, Assembly

Languages French: native language, English: Intermediate

Mobility

Since November ENS Lyon

2019 Laboratory LIP, Team AVALON, Lyon, France

January - October Université Côte d'Azur

2019 Laboratory i3S, Team SCALE, Sophia Antipolis, France

Mars - August Univeristé de Toulouse

2018 Laboratory IRIT, Team SEPIA, Toulouse, France

Personal Traits

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

Great capacity for assimilation

Leadership

Ability to work simultaneously on multiple projects and under pressure

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

Transversal Training

How to deal with sexist remarks

Caroline De Haas, Campus de Cely, France, October 2021

Learn how to negociate and build relationships

Aurelien Colson, Campus de Cely, France, October 2021

Personal development and team management

Sabine Henrichfreise & Olivier Basso, Campus de Cely, France, October 2021

Media Training

EuroBusiness Media (Tatiana Haen), Online, France, July 2021

Être lu : comment assurer la circulation de sa publication sur le web?

Université Côte d'Azur, France, October 2020

Medias

Link
CNRS Tribune de Lyon Le Progrès Lyon HER magazine ENS Lyon Radio Scoop Lyon Lyon Entreprises Info-Flash Rhone-Alpes Villeurbanne ActuNice Tout Lyon Ville de Villeurbanne (Facebook) Viva Villeurbanne Impact FM Lyon
BFM - Part 1 BFM - Part 2
Facebook Interview Live Facebook Instagram Interview
ENS Lyon LinkedIn
LinkedIn Youtube

National Television (CRTV) - For the celebration of International Women's Day

March 8, 2021

LinkedIn
Youtube