

Simon DA SILVA \ MSc, PhD student

🏠 Bordeaux, FR – French citizen

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— STREAMING, SECURITY, PROGRAMMING, DEVOPS, CLOUD, TEE (SGX) —

EXPERIENCE

PhD in Computer Science - LaBRI, Bordeaux 2017–2020

Thesis: High-QoE Privacy-Preserving Video Streaming

I am currently developing a privacy-preserving edge-assisted video content delivery system

Graduate Teaching Assistant - Bordeaux INP: ENSEIRB-MATMECA 2017–2020

Teaching: Cloud computing (*Docker*); Multimedia; Network programming (*C, Sockets, TCP/IP*); Web services (*API REST*)

Research intern - LaBRI, Bordeaux (6 months) 2017

I designed and developed MUSLIN, a dynamic server provisioning and content delivery system

R&D intern - Victoria University, Melbourne, Australia (4 months) 2016

I implemented an image recognition algorithm in two mobile applications (Android and iOS) for a major Australian company

Engineering intern - Orange (UIMP), Toulouse (2 months) 2015

I helped maintain Orange network facilities (formerly France Telecom)

EDUCATION

MSc in Telecommunications Engineering - Bordeaux INP: ENSEIRB-MATMECA - With Honors ... 2017

Software Engineering for Computer Science and Networks - 1st/56

Higher School Preparatory Classes - Lycée Déodat de Séverac, Toulouse 2014

Scientific Baccalauréat, Mathematics major - Lycée Pierre de Fermat, Toulouse 2012

PROJECTS

HESTIA - Internet of Things for the connected home - IMS, Bordeaux - THALES jury award 2016

We designed four fully functional connected objects prototypes linked through a custom Smart Home Center

Websites - I am developing and maintaining several websites 2017–2020

Google HashCode - I teamed up with three friends and colleagues - *Top 20% worldwide* 2016–2018

One Minute Telecom - We made a one minute popularization video about Fourier Series - *Winner* 2015

SKILLS

Technologies and languages: C/C++, SGX, Docker, Python, NodeJS, Java, JavaScript, WEB, DASH, Bash

LANGUAGES

English: Fluent - *TOEIC 990/990 - IELTS 8/9*

Spanish: Professional proficiency

French: Native speaker

Portuguese: Good proficiency

HOBBIES

Association - I have been elected as the AFoDIB president, Bordeaux CS PhD students association 2017–2019

Involvement - I am an elected PhD students representative at the Maths-CS doctoral school 2017–2020

Music - I am a music producer (electro) and regularly mix; I have attended the academy for 9 years (guitar)

Sport & hobbies - Table tennis (6 years in sports club), Laser Tag, Escape Game, climbing, ski, hiking

Technology - I read tech news daily and monitor developments, especially in telecommunications

Travel - I love travelling, discovering new people, landscapes and cultures (23 visited countries)

PUBLICATIONS

PRIVATUBE

[MW19] [S. Da Silva](#), S. Ben Mokhtar, S. Contiu, D. Négru, L. Réveillère, E. Rivière.

PRIVATUBE: Privacy-Preserving Edge-Assisted Video Streaming.

20th International Middleware Conference (Middleware '19).

[MW18DS] [S. Da Silva](#).

PRIVA-STREAM: Private Collaborative Live Streaming.

19th International Middleware Conference Doctoral Symposium (Middleware '18).

[MW18poster] [S. Da Silva](#).

PRIVA-STREAM: Private Collaborative Streaming.

19th International Middleware Conference Poster (Middleware '18).

MUSLIN

[IJNM19] [S. Da Silva](#), J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN: A QoE-Aware CDN Resources Provisioning and Advertising System for Cost-Efficient Multi-Source Live Streaming.

International Journal of Network Management (IJNM '19).

[PV18] [S. Da Silva](#), J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN: Achieving High, Fairly Shared QoE Through Multi-Source Live Streaming.

Packet Video Workshop (PV '18).

[MMSys18] [S. Da Silva](#), J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN demo: High QoE Fair Multi-Source Live Streaming.

ACM Multimedia Systems Conference (MMSys '18).

MS-Stream

[Interstices] J. Bruneau-Queyreix, [S. Da Silva](#), M. Lacaud, D. Négru.

Vers une meilleure diffusion vidéo sur Internet.

Interstices, INRIA, 2018.

AWARDS

[EDMI19] - **Best poster award** - *2nd place* - EDMI day 2019 2019-04

[MMSys18] - **DASH-IF Excellence in DASH Award** - *3rd place* - MMSys '18 2018-06

[MMSys18] - **Student Travel Grant Award** - MMSys '18 2018-06

[EDMI18] - **Best poster award** - *2nd place* - EDMI day 2018 2018-03

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