



# Simon DA SILVA \ MSc, PhD student

🏠 September 13, 1994 (25 y.o.) • 🏠 Bordeaux, FR – French citizen

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— STREAMING, MULTIMEDIA, SECURITY, PRIVACY, NETWORKS, 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 have visited 22 countries (last: South Africa), my next trip will be across Canada, USA and Mexico**

## PUBLICATIONS

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### PRIVATUBE

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[MW19] S. Da Silva, Sonia Ben Mokhtar, Stefan Contiu, Daniel Négru, Laurent Réveillère, Etienne 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

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[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

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[Interstices] J. Bruneau-Queyreix, S. Da Silva, M. Lacaud, D. Négru.  
**Vers une meilleure diffusion vidéo sur Internet.**  
*Interstices, INRIA, 2018.*

## AWARDS

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[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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