

Solal Pirelli

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Education | **PhD in Computer Science**

EPFL, Switzerland – ongoing
Advisor: George Candea

Master's in computer science

EPFL, Switzerland – February 2018 – GPA: 5.6/6

Bachelor's in computer science

EPFL, Switzerland – July 2015 – GPA: 5.2/6

Publications | **Automated Verification of Network Function Binaries**

[S. Pirelli](#), A. Valentukonytė, K. Argyraki, G. Candea. NSDI '22

A Simpler and Faster NIC Driver Model for Network Functions

[S. Pirelli](#), G. Candea. OSDI '20

Verifying Software Network Functions with No Verification Expertise

A. Zaostrovnykh, [S. Pirelli](#), R. Iyer, M. Rizzo, L. Pedrosa, K. Argyraki, G. Candea. SOSP '19

Performance Contracts for Software Network Functions

R. Iyer, L. Pedrosa, A. Zaostrovnykh, [S. Pirelli](#), K. Argyraki, G. Candea. NSDI '19

A Formally Verified NAT Stack

[S. Pirelli](#), A. Zaostrovnykh, G. Candea. KBNets workshop '18 (Best Paper Award)

A Formally Verified NAT

A. Zaostrovnykh, [S. Pirelli](#), L. Pedrosa, K. Argyraki, G. Candea. SIGCOMM '17

Service | **Artifact evaluation co-chair**, EuroSys 22,

Artifact evaluator, OSDI 20, EuroSys 21, OSDI 21, SOSP 21

Experience | **Software Engineer Intern**

Microsoft – Summer 2017

Developed a prototype of a distributed SQL query executor on Apache Hadoop.

Software Developer

PocketCampus – 2014-2018

Ported the official EPFL app to Windows Phone in C#, with ~300 users and a 5-star Store rating.

Implemented parts of the server in Java, with ~10,000 users across iOS, Android, and Windows.

Volunteer work | **PolyProg** – EPFL competitive programming association

Member since 2014, Vice-President in 2015, President in 2016-2019

LauzHack – EPFL's largest hackathon

Organizer since 2016, President since 2021

Achievements | **Teaching Assistant Award** – Fall 2015, Fall 2016, Fall 2021

For outstanding work in the Software Engineering course. Led student teams in projects using the Scrum process with weekly sprints and code reviews. Taught multiple lectures.

Languages | **French**, native

English, fluent