

Augustin Laouar

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 in/augustin-laouar

Education

École Normale Supérieure de Lyon

PhD student in Computer Science advised by Francesco Bronzino

Lyon, France

Mar 2025 – present

- Research focus: architecture of Internet systems with an emphasis on network performance and privacy.

Université Claude Bernard Lyon 1

MSc in Computer Science (GPA: 3.9/4.0)

Lyon, France

Sept 2022 – Sept 2024

- Specialization in networking and security.

Université de Lorraine

BSc in Computer Science (GPA: 4.00/4.0)

Nancy, France

Sept 2019 – June 2022

Publications

Rethinking Geolocation on the Internet

Augustin Laouar, Loïc Desgeorges, Paul Schmitt, Francesco Bronzino

ACM HotNets, 2025

SoK: Privacy Analysis of Geolocation Data Infrastructures

Augustin Laouar, Paul Lachat, Loïc Desgeorges, Pascale Vicat-Blanc, Francesco Bronzino

In preparation. Systematizes existing geolocation infrastructures through an adversary-model analysis to evaluate their privacy weaknesses and exposure risks.

Research Experience

École Normale Supérieure de Lyon

Research Engineer

Lyon, France

Oct 2024 – Feb 2025

- Network performance analysis of wireless IoT devices.
- Developed an innovative and lightweight method for modeling network traffic based on multivariate distribution, improving accuracy by 23% compared to classical methods.
- Implemented this method in an NS3 module (**C++**).

Université Claude Bernard Lyon 1

Undergraduate Research Assistant advised by Thomas Begin

Lyon, France

Nov 2024 – June 2025

- Security and privacy impact of IoT devices.
- Reverse engineered IoT devices using **Ghidra** and **Wireshark**, and found several vulnerabilities.

Industry Experience

Viveris

Network Engineer Apprentice

Lyon, France

Sept 2023 – Sept 2024

- Led network infrastructure projects to align company with **ISO 27001 standards**.
- Reduced infrastructure costs by 25% by using open-source solutions such as OPNSense, OpenVAS and Zabbix.

WorldLine

Software Engineer Intern

Bertrange, Luxembourg

Apr 2022 – Aug 2022

- Developed financial tools using **Java Spring** and **PostgreSQL**

Teaching Experience

École Normale Supérieure de Lyon

Teaching Assistant

Lyon, France

Sept 2025 – present

- Software engineering (C/C++, Python, Rust, Git) for master's and bachelor's students.

Université Claude Bernard Lyon 1

Teaching Assistant

Lyon, France

Oct 2024 – Jan 2025

- Computer networking for master's students.

Projects

Crowdsourced VPN platform | Go, Rust, Python, WireGuard, ReactJS

- Currently building a WireGuard-based VPN marketplace.
- Implements AI-driven server selection and load balancing.
- Supports onion routing (multi-hop and packet slicing).

Firefox/Chrome Web Extension | JavaScript, HTML, CSS

- Developed and published a web extension to generate and use temporary emails.

Windows Network Monitoring | C++, Npcap, Windows ETW

- Developed a network connection monitoring tool in C++ using Npcap and Windows ETW to extract real-time TCP/UDP flows associated with source processes.

Skills

Programming: C/C++, Rust, Go, Python, Java, Web (JS/HTML/CSS)

Certifications: CCNA 1 & 2, CCNA Security, INE eJPT

Languages: French (Native), English (Fluent), Spanish (Intermediate)