

# AGHILES DJOUDI

## Network Security Engineer

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Paris, FR



## EXPERIENCES

### Engineering Research: Privacy assessment in social networks

University: Sorbonne University

Jan 2018 - Dec 2018    Paris, FR

- Study the state of the art of users privacy assessment in social networks.
- Classify users privacy leakage through technical, social and behavioral threats.
- Build an intelligent framework based on a contagion process to estimate the level of social privacy.

### Research internship: Vehicle to Pedestrian communication V2P

Engineering school: Institute of Automotive and Transport Engineering (ISAT)

Mar 2017 - Jul 2017    Nevers, FR

- Simulate road traffic with SUMO and vehicular communications with NS3
- Build a mobile application (Android) to avoid Pedestrian Accidents
- Compare the PDR & RTD of WIFI and LTE networks on the application.

### Mobile Development project: Data Mining & Deep Learning.

University: Pierre and Marie Curie University (UPMC)

Oct 2017 - Dec 2017    Paris, FR

UPMC and the Macao Institute have developed pollution sensors.

- Design a mobile application to operate the pollution data.
- Build a supervised learning model with Keras (Python) for pollution prediction.
- Analyze, represent and display the results on a mobile application.

### Internship: Internet traffic engineering.

Company: SONATRACH

Jun 2015 - Aug 2015    Algiers, DZ

- Configure IPv4, IPv6 routing and inter VLAN routing (Cisco Routers).
- Manage ACLs and improve traffic using QoS techniques.
- Monitor network functions with Syslog and NetFlow.

## PROJECTS & WORKS

### Research project: Security of SDN

- Understand current networks limitations. Study the state of the art.
- Become familiar with OpenFlow and understand the difficulties of NFV.

### Research project: Intelligent intrusion detection system.

- Compare the network behavior in the presence and the absence of an attack.
- Build a supervised model and write a Latex research paper (methodology).

### Technical project: Wireless video transmission.

- Configure an ad-hoc network between four Raspberry pi.
- Generate video traffic and control throughput, delay, jitter, and loss rate.

### Technical project: Distributed computing client-server software.

### Technical project: Secure client-server software with PKI.

## MODELING

- Temporal logic (LTL & CTL)
- Deterministic & probabilistic automata
- Graph theory
- Game & Queueing theory
- Discrete & Continuous time Markov chain
- Supervised and unsupervised learning

## PROGRAMMING

- |                  |              |
|------------------|--------------|
| • Mobile:        | Android      |
| • Software:      | Java, C++, C |
| • Data analysis: | R, Python    |
| • Web:           | PHP, HTML    |
| • Script:        | Shell, Perl  |
| • Document:      | Latex        |

## EDUCATION

### Ph.D.: Smart cities & Internet of things

Paris-Est University (UPE) / ESIEE school

2019 - 2022    Marne-la-Vallée, FR

### Master degree in Computer Networks

Sorbonne University & Télécom ParisTech School

2015 - 2017    Paris, FR

### Bachelor degree in Computer Science

Houari-Boumediène University (USTHB)

2012 - 2015    Algiers, DZ

## CERTIFICATION

### Cisco Certified Network Associate.

EL YACINE school

August 2016 - August 2019

## LANGUAGES

English  
French  
Kabyle



## MISCELLANEOUS

Brevet national de sécurité et de sauvetage aquatique (BNSSA)    Paris, FR

# PUBLICATIONS

## Conference Proceedings

- Djoudi, A. and G. Pujolle (2019). "Social Privacy Score Through Vulnerability Contagion Process". In: *2019 Fifth Conference on Mobile and Secure Services (MobiSecServ)*, pp. 1–6. DOI: 10.1109/MOBISECSERV.2019.8686721.

# REFEREES

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