

Alexandre Pham

PHD STUDENT AT LIP6 (SORBONNE UNIVERSITY - CNRS) IN FRANCE

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Education

LIP6 (Sorbonne Université - CNRS)

Paris, France

PHD IN COMPUTER SCIENCE

October 2023 - October 2026

- Doctoral advisor: Maria POTOP-BUTUCARU
- Subject title: Peer-to-peer Cybersecure Federated Learning

Université Paris-Saclay

Orsay, France

MASTER'S DEGREE IN COMPUTER SCIENCE

September 2021 - September 2023

- Recipient of the MixtAI scholarship during 2022-2023
- Fields studied: Wireless Networking, Machine Learning, Reinforcement Learning, Internet of Things, Optimization, Blockchain

Université Paris-Saclay

Orsay, France

BACHELOR'S DEGREE IN MATHEMATICS AND COMPUTER SCIENCE

2019 - September 2021

- Mathematics: Analysis, Linear algebra, Probabilities, Statistics
- Computer Sciences: Programming, Machine Learning

Internships

LIP6 (Sorbonne Université - CNRS)

Paris, France

RESEARCH ASSISTANT

March 2023 - September 2023

- Subject title: Peer-to-peer cybersecure Federated Learning
- Tutors: Maria POTOP-BUTUCARU and Sébastien TIXEUIL
- Supervisor: Mohamed Amine LEGHERABA
- Keywords: Federated Learning, Peer-to-peer network, Cybersecurity, Blockchain, Machine Learning, Deep Learning, Poisoning attacks

LISN (Université Paris-Saclay - CNRS) and ISIR (Sorbonne Université - CNRS)

Orsay and Paris, France

RESEARCH ASSISTANT

May 2022 - July 2022

- Subject title: Visualization of file graphs
- Tutor: Michel BEAUDOUIN-LAFON (LISN)
- Supervisor: Julien GORI (ISIR)
- Keywords: Human-Computer Interaction, Natural Language Processing

Publications

Conferences

Alexandre Pham, Maria Potop-Butucaru, Sébastien Tixeuil, and Serge Fdida. "Data Poisoning Attacks in Gossip Learning". In: *Advanced Information Networking and Applications*. Ed. by Leonard Barolli. Cham: Springer Nature Switzerland, 2024, pp. 213–224. ISBN: 978-3-031-57853-3. DOI: 10.1007/978-3-031-57853-3_18. URL: <https://hal.sorbonne-universite.fr/hal-04401682>

Technical Reports

Alexandre Pham, Maria Potop-Butucaru, Sébastien Tixeuil, and Serge Fdida. *Data Poisoning Attacks in Gossip Learning*. Mar. 11, 2024. DOI: 10.48550/arXiv.2403.06583. arXiv: 2403.06583 [cs]. URL: <http://arxiv.org/abs/2403.06583>. Pre-published

Teaching

Sorbonne Université (Bachelor and Master) and Polytech Sorbonne (Engineering school)

Paris, France

TEACHING ASSISTANT (MONITEUR)

October 2023 - Currently

Courses	Academic Year	Hours	Teacher in charge	Where	Level	Notes
Networking	2023-2024	40	Bruno BAYNAT	Sorbonne Université	3 rd year of Bachelor degree	
Wireless Networking	2023-2024	24	Anne FLADENMULLER	Sorbonne Université	1 st year of Master degree	Taught in French and English
Project Monitoring	2023-2024	10	Maria POTOP-BUTUCARU	Polytech Sorbonne	3 rd year of Engineering school	
Networking	2024-2025	43.5	Bruno BAYNAT	Sorbonne Université	3 rd year of Bachelor degree	
Wireless Networking	2024-2025	24	Anne FLADENMULLER	Sorbonne Université	1 st year of Master degree	
Project Monitoring	2024-2025	10	Maria POTOP-BUTUCARU	Polytech Sorbonne	3 rd year of Engineering school	
Total		151.5				

Collective tasks

2024Member, LIP6's PhD Board

Paris, France

Certificates

12-2021Test of English for International Communication (TOEIC), Educational Testing Service

C1

Skills

Languages	French, English, Vietnamese, Spanish (Intermediary), Japanese (Beginner)
Programming	Python, Java, C++, OCaml, Javascript
UI/UX	Basic interfaces on Python and Java (projects available on GitHub)
Machine Learning and Data Science related	Numpy, scikit-learn, PyTorch, Pandas, Matplotlib, seaborn...
Tools	Git, $\LaTeX$
Web Development	Flask
Mobile Application Development	Android (Java)
Networking, Cloud	nftables, NGINX, IBM Cloud, Docker