

# Théo Delemazure

Computer Science student at ENS

45, rue d'Ulm

75005 Paris

France

+336 37 51 41 18

✉ [theo.delemazure@ens.fr](mailto:theo.delemazure@ens.fr)

📄 [theo.delemazure.fr](http://theo.delemazure.fr)

## Education

2019-2020 **Master 2 Artificial Intelligence, Systems and Data (IASD)**, Paris Dauphine University, Paris.

Courses : Machine Learning, Optimization, Advanced databases, Reasoning and Planning, Deep learning, Incremental learning, Reinforcement learning, Deep learning for image analysis, Natural language processing, Ethics in AI, Data reasoning and Knowledge graphs, Computational social choice.

Projects : *A recommendation system with reinforcement learning* (3 weeks), *Unsupervised word translation* (3 weeks), *Build a network robust to FGSM attack for CIFAR* (4 weeks).

2018 - 2019 **Master 1 in Computer Science**, Ecole Normale Supérieure, Paris.

Courses : Statistical learning, computer vision, networks algorithms, Information systems security, Linguistic.

2017 - 2021 **ENS Diploma in Computer Science**, Ecole Normale Supérieure, Paris.

The *Ecole Normale Supérieure* is a prestigious institution of higher education providing specialized training to students who will become researchers in their fields.

2017 - 2018 **Bachelor's degree in Computer Science**, Ecole Normale Supérieure, Paris.

Courses : Compilation (Project: Rust Compiler), Formal Languages, Databases, Cryptology, Algorithmic, Systems.

Honours : Highest honours.

2015-2017 **Classes Préparatoires in Mathematics and Physics**, CPGE Aux Lazaristes, Lyon.

○ Admitted to *Ecole Polytechnique*

○ Admitted to *Ecole Normale Supérieure* (Rank : 4<sup>th</sup>)

2015 **Baccalauréat Scientifique**, Lycée Fenelon, Grasse.

Equivalent to :

○ A A-level with highest honours in Mathematics, Physics, Chemistry and Biology.

○ A high school graduation diploma (major : Sciences).

## Experience

2019 **5 months internship**, New York University, New York, Algorithms and Systems for Computational Social Choice: Incorporating Context into Preference Aggregation.

I implemented and optimized algorithms to solve necessary and possible winner problems in the context of partial preferences. I also ran an experiment to collect partial preferences data and proposed a new method to generate artificial data for partial preferences.

Supervisor: Pr. Julia Stoyanovich

2018 **2 months internship**, *Inria*, Lille (France), Make understandable the access controls of social networks.

I built a formal model for access controls on social networks and solve complexity problems on this model. I also created a tool/compiler which enable to do huge queries on the Facebook database.

Supervisors: Pierre Bourrhis, Romain Rouvoy and Walter Rudametkin

## Languages

French Mother tongue  
English Good command  
Spanish Basic knowledge

## Skills

Programming Python, Java, OCaml, Shell, X86\_ assembly (basic knowledge C, C++ )  
Databases SQL, SPARQL, Neo4j (basic knowledge Hive)  
Libraries Pytorch, Keras, Numpy, ...  
Web HTML, CSS, PHP, Javascript  
Design Microsoft Office, Libre office and  $\LaTeX$

## Activities and interests

Student Life **Treasurer** of the student's association of the ENS (2018)

Drawing **As an author**, hundreds of illustrations and comic strips, I am also starting animation.

**As a reader**, I like all kind of comic strips and authors, especially *Marc-Antoine Mathieu* and *Lewis Trondheim*.

Programming Creation of **mobile apps, games and websites**.

Drama **As an actor**, in a club from 2009 to 2015 and in highschool from 2012 to 2015.

**As a spectator**, Paris and Grasse theatres.