

Augustin Godinot

18 rue Lakanal, 38000 Grenoble, France

☎ (+33) (0)6 23 56 76 38 | ✉ augustin.godinot@ens-paris-saclay.fr | 📷 [godino](#) | 📺 [augustingodinot](#) | 🐦 [@augodinot](#)

Career Objective

Sensitive to the bias, fairness and diversity issues of online algorithms, I want to pursue a PhD exploring the fields in relation to digital communications, recommender systems and applied mathematics.

Education

ENS Paris-Saclay – Centrale-Supelec

Gif-sur-Yvette, France

M2 SAR : ADVANCED WIRELESS COMMUNICATIONS SYSTEMS

September 2021- Exp. October 2022

- Master degree focusing on the theoretical tools used to create, model and analysis modern communications systems.
- Relevant coursework: Queuing theory, Source and Channel Coding, Information Theory, Reinforcement learning, Game Theory.
- **Research project: duopolies in online marketing through the lens of Game-Theory**

ENS Paris-Saclay

Gif-sur-Yvette, France

RESEARCH YEAR IN ARTIFICIAL INTELLIGENCE

September 2020 - June 2021

- Equivalent to a gap year dedicated to acquiring experience and knowledge in a lab working on Machine Learning
- Relevant coursework (from M2 MVA): **Convex optimization and applications in machine learning**, Foundations of Distributed and Large Scale Computing Optimization, Computational Optimal Transport
- **Research project: Analysis of the diversity of the recommendations issued by recommender systems on online music platforms**

ENS Paris-Saclay – Université Paris-Saclay

Gif-sur-Yvette, France

M1 EEA VOIE ANDRÉ AMPÈRE, AI TRACK

September 2019 - June 2020

- Equivalent to a master's degree in Electrical engineering, electronics and Control with an artificial intelligence mention
- Relevant coursework: **Advanced signal and image processing**, Information Theory, Channel Coding, C programming for embedded systems, Non-linear system control
- AI track: extra courses about the mathematical theory of artificial intelligence and projects to apply these concepts to signals and graphs
- Research project: modelling and simulations of mobile networks

ENS Paris-Saclay

Cachan, France

FORMATION SAPHIRE EEA

September 2018 - June 2019

- Equivalent to a multidisciplinary bachelor' degree in Electrical engineering, electronics and Control with courses from the Civil and Mechanical Engineering departments
- Relevant coursework: electronics, Programming, Linear system control, quantum mechanics, continuum mechanics, Signal processing, Numerical Methods
- Research project: Designed and built an "Urban Orchestra". It consisted in a child's seesaw that created music according to their movements
- Research project: optimization of the mass of a transformer

Lycée Pasteur, Lycée Hoche

Versailles, France

CLASSE PRÉPARATOIRE AUX GRANDES ÉCOLES PCSI-PSI*

September 2016 - June 2018

- An intensive two-year class preparing for entrance examinations to the French Grandes Ecoles
- Research project: designed and build a "autonomous basket". Consisted in a basket on rails, capable of catching a ball thrown at it thanks to a camera detecting the ball's trajectory

Institution Saint Dominique

Neuilly-Sur-Seine, France

BACCALAUREAT SCIENTIFIQUE S-SVT OPTION MATHÉMATIQUES

2016

- Equivalent to A-levels, with honours

Work Experience

Naverlabs Europe

Meylan, France

April 2022 - Expected October 2022

SEARCH AND RECOMMENDATION RESEARCH INTERN

- Studied the emergence and optimization of diversity in Search and Recommendation systems
- Performed an extensive set of experiments with state-of-the-art Neural Rankers and Re-Rankers to assess their diversity capabilities
- Using tools from Information Theory and Optimization, attempted to understand the surprising (diversity) performance of models trained with Noise Contrasted Estimation Loss.

Nokia Bell Labs

Nozay, France

February 2021 - August 2021

OPTIMIZATION RESEARCH INTERN

- Conducted an analysis of the state-of-the-art of the Online Multi-agent Path Finding problem
- Implemented an online solver in Go. Collaborated with researchers from Bell Labs, Murray Hill to integrate the code in the Bell Labs multi-robot environment.
- Assessed the performance of the solver in simulation and on real robots. Improved the algorithm based on the experimental results.

ISP, ENS Paris-Saclay

Gif-sur-Yvette, France

September 2020 - February 2021

COMPLEX NETWORKS RESEARCH INTERN

- Measured the impact of a recommender system on the diversity of the content exposed to users.
- Presented the results at the *Complex Networks and their Applications* conference in Madrid in December 2021.

eLichens

Grenoble, France

May 2020 - August 2020

SIGNAL PROCESSING INTERN

- Conducted studies to improve performance of gas concentration measures with Non Dispersive InfraRed sensors
- Notions encountered: Optimal amplitude estimators, Noise whitenings, Joint source-receiver optimisation

Lycée Louis Pasteur

Neuilly-sur-Seine, France

September 2017 - July 2021

COLLEUR (ORAL EXAMINER) IN MATHEMATICS

- Assessing students and writing reports to their professor
- Supporting students having difficulties
- Creating original exercises to test their capacities when dealing with uncommon situations

Extracurricular Activities

La Menuiz' (ENS wood-working club)

Cachan, France

VICE-PRESIDENT

Mar. 2019 - May 2020

- Reorganized the club and planned its move to the future buildings of the ENS
- Offering various activities to student willing to learn about woodworking

Les [ENS]crimeurs de K-Chan (ENS Fencing Club)

Cachan, France

PRESIDENT

Sep. 2019 - Sep. 2020

- Scheduling students' participation in competitions

Languages

- **French** Mother tongue
- **English** Very good command (Cambridge Advanced Exam Certification Level C2)
- **German** Basic knowledge (European Level B2)

Computer skills

Windows, Linux, Office Suite, \LaTeX , Adobe photoshop and illustrator, SQL, MySQL, Javascript, JQuery, Python, Numpy, Django, html, css

Interests

Fencing: Have been practicing for 15 years and participated in national competitions

Biketouring: Travelling to remote areas by bike, unassisted

References

Pr. Thomas Rodet
EEA department's director
thomas.rodet@ens-paris-saclay.fr

Mr. Robert Thai
Mathematics teacher at Lycée Louis Pasteur
thai@phare.normalesup.org

Other references available upon request