# Louis Lemonnier – Curriculum Vitae

<table>
<thead>
<tr>
<th><strong>Date of birth</strong></th>
<th>10th December 1996</th>
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<tbody>
<tr>
<td><strong>Nationality</strong></td>
<td>French</td>
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<td><strong>Phone</strong></td>
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<td><strong>Webpage</strong> Link</td>
<td>LMF 4 avenue des Sciences, 91190 Gif-sur-Yvette FRANCE</td>
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## Papers


## Preprints


Titouan Carette, LL. Large-scale quantum diagrammatic reasoning tools, !-boxes vs. scalable notations. Link: [arXiv](http://arxiv.org).

## Teaching

### 2022-2023
ENS Paris-Saclay, L3 Computer science.
Exercise sessions in programming semantics and type systems.
Exercise sessions in computability, Turing machines, and recursive functions.
Supervision of a project: Go compiler programmed in OCaml.

### 2021-2022
ENS Paris-Saclay, L3 Computer science.
Exercise sessions in programming semantics and type systems.
Supervision of a project: Go compiler programmed in OCaml.
Supervision of a project: game programmed in Scala.

### 2020-2021
Sorbonne Université, L2 Mathematics applied to social studies.
Tutorial and exercise sessions of Python.
Internships / Master thesis

Date: June-July 2018
Referee: Frédéric Dupuis
Laboratory: LORIA, Nancy, France
Subject: Capacity of quantum channels

Date: March-August 2019
Referee: Aleks Kissinger
Laboratory: iCIS, Raboud Universiteit Nijmegen, The Netherlands
Subject: Connecting the path-sum technique for circuit verification to the ZH-calculus

Date: March-August 2021
Referee: Benoît Valiron
Laboratory: LRI, Université Paris-Saclay, France
Subject: Categorical construction of reversible (quantum) programming languages

Education

2021-2024 PhD student, at LMF, ENS Paris-Saclay, Université Paris-Saclay.
Supervised by Benoît Valiron and Vladimir Zamdzhiev.
Subject: Categorical semantics of quantum programming languages and quantum linear optics.

2020-2021 Université Paris Diderot, MPRI (Master Parisien de Recherche en Informatique).
Focus on category theory, semantics of programming languages, logic, proof assistant Coq and quantum information.

2019-2020 École Normale Supérieure de Cachan (renamed Paris-Saclay),
Master degree in Mathematics, and preparational year to «agrégation de mathématiques».

2017-2019 École Normale Supérieure de Cachan (renamed Paris-Saclay),
computer science department, 3rd and 4th year studies.
Pluridisciplinary years in Computer Science.
Personal focus on category theory, rewriting and quantum physics.


2014 French «baccalauréat».

Personal skills

- President of the PhD student association at ENS.
- Treasurer for the Student’s office («Bureau des élèves» organise almost all the events on the campus) in 2018.
- Manager of the informatics services of the BdE (servers/clients, databases) in 2018.
- Several articles published in the student journal at ENS.