

Mathieu CHANAVAT



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chanavat.site

PROFILE

I am a young graduate student looking for a year of work experience near Vancouver. I have a wide variety of skills related to new technologies, and I am a quick learner.

I value respect and diplomacy, and my strong interpersonal skills allow me to communicate well and quickly understand the tasks at hand.

COURSEWORK

Mathematics

Logic, analysis, algebra, category theory, linear algebra, ...

Computer science

IA, data science, functional programming, theoretical computer science

Physics

Classical mechanics, electromagnetism, thermodynamics

SOFTWARE SKILLS

Python, C, C++, Java
Microsoft Office
GitHub
SQL

SOFT SKILLS

Teaching & communication
Teamwork
Time management
Planning
Rigor

LANGUAGE

French (native)
English

HOBBIES

Fictional and scientific writing
Climbing
Philosophy
Chess

EDUCATION

**2021 - 2022 - MASTER'S DEGREE IN MATH AND LOGIC -
UNIVERSITY OF PARIS - FRANCE**

Category theory, set and model theory, proof theory.

**2020 - 2021 - MASTER'S DEGREE IN MATH - UNIVERSITY OF LILLE
- FRANCE**

Functional analysis and advanced probabilities.

**2018 - 2021 - MASTER OF SCIENCE (MSc) - ECOLE CENTRALE
LILLE - FRANCE**

General engineering with emphasis on applied mathematics and informatics. Graduation in 2022.

**2018 - 2019 - BACHELOR'S DEGREE IN MATH - UNIVERSITY OF
LILLE - FRANCE**

Algebra, analysis and topology courses. Granted with high honors.

**2015 - 2018 - CPGE MATHS/PHYSICS - LYCÉE BLAISE PASCAL -
CLERMONT-FERRAND - FRANCE**

Intensive classes in maths, physics and informatics for three years after high school graduation.

WORK AND VOLUNTEER EXPERIENCES

**APRIL - AUGUST 2022 | RESEARCHER IN MATH | INRIA | PARIS -
FRANCE**

Worked on Cubical Type Theory, a framework to do constructive mathematics in the context of homotopy type theory. Internship.

**APRIL - AUGUST 2021 | RESEARCHER IN CS | CIIRC | PRAGUE -
CZECH REPUBLIC**

Developed new computational tools to investigate an open problem in mathematics. Internship.

**JULY - AUGUST 2020 | MATH WEB DEVELOPER | KWYK | PARIS -
FRANCE**

Developed and coded math exercises in Python for educational startup Kwyk.

**SEPTEMBER 2019 - JUNE 2020 | TUTOR OF A MATH LESSONS |
ÉCOLE CENTRALE LILLE | LILLE - FRANCE**

Taught of weekly lessons in mathematics to more than twenty international students, to help them catch up on French prerequisites to college mathematics. Volunteer experience.

**MARCH 2019 - MARCH 2020 | MEMBER OF THE STUDENT
COUNCIL | ÉCOLE CENTRALE LILLE | LILLE - FRANCE**

Coordinated event logistics for students in École Centrale Lille. Volunteer experience