

# Hanna CHETOUANE

Master's student in Applied Mathematics - Scientific Computing and Mathematics of Information



## About me

Nationality : French  
Birth : 16/01/2003  
Adress : 13 rue du  
Maennelstein  
Strasbourg, France

## Skills

- Good communication and teamwork skills
- Good adaptability and observation skills
- Perseverance and ability to surpass myself


## Interests


- Mathematics and computer science
- Figure skating
- Nature and environment

## Langages

<b>French</b>	C2	Mother tongue
<b>English</b>	B1/B2	<div><div></div><div></div><div></div><div></div><div></div></div>

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## CURRICULUM

2024 | **CSMI Master (Scientific Computing and Mathematics of Innovation)**

University of Strasbourg 

Advanced skills in statistics, mathematical modeling, numerical simulation, optimization, scientific computing, signal and image processing, as well as algorithms and high-performance computing (put into practice through projects and internships).

2021-2024 | **Bachelor of Applied Mathematics**University of Strasbourg 

Fundamental bases in analysis (integration, function sequences and series), algebra, Fourier series, differential calculus, probability and statistics, as well as computer science.

## COMPETENCIES

### Master's competencies

Scientific computing, solving numerical and theoretical equations, algorithms and graphs, random models, data processing and exploitation, high-performance computing (MPI, OpenCL).



## Tools

- **Github** : CI, branch management, pull requests, team collaboration
- **Makefiles** : Automated compilation and unit testing (ctest, catch2)
- **Docker** : Managing environments with Dockerfile




## Programming

Language/Tool	Duration	Primary Use Case
Python	3 years	Modelling and Simulation
C++	2 years	Mathematical Applications and Parallel Computing
Latex	1 year	Reports and Project Presentations
C	1 semester	Operating system
Rust	1 semester	Scientific calculation and equation solving
Sql	1 semester	Database management
R	1 semester	Mathematical statistics

## DEGREES

2024	<b>Bachelor of Applied Mathematics</b> in University of Strasbourg	
2021	<b>Baccalaureate</b> at Sainte-Anne high school, Strasbourg	

## CERTIFICATES

<b>2024</b>	<b>BF1</b> (first ice sports coaching certificate)	
<b>2024</b>	<b>PSC1</b> (Level 1 prevention and first aid)	
<b>2022</b>	<b>B driving license</b>	

## EXPERIENCES

2022–today	<b>Mathematics Support</b> From middle school to post-baccalaureate, I help students with their homework and general understanding of their mathematics lessons.
2018–today	<b>Figure Skating Instructor</b> I coach at the CSGSA ("Club des sports de glace de Strasbourg Alsace") at all levels, including Competitors, Baby Club, and Adults.