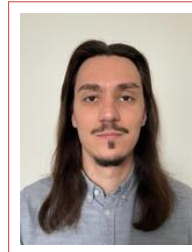


# Cyril Falcon

*Ph.D., Professeur agrégé*

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✉ [falcon.cyril@gmail.com](mailto:falcon.cyril@gmail.com)  
in [falcon-cyril](#)  
French citizenship  
Born on August 4th, 1994 in Bordeaux



Trained as a mathematician, passionate about physical sciences and highly curious about digital sciences, I am a versatile and creative person endowed with solid intuition and natural talents in communication. Constantly seeking new challenges, I am determined to use my analytical abilities and technical agility to meet innovation demands in the cutting-edge industry.

## Work experience

- CDI Research engineer in Navigation algorithms**, Exail, Saint-Germain-en-Laye.  
23/05– World 1st company in advanced technologies for resilient navigation.
  - Development of multi-sensor inertial navigation algorithms and validation tests.
  - Simulations for prediction and statistical modelling of internal navigation errors.
  - Sensor signal processing for improved navigation performance.
- CDD Research scientist in Pure mathematics**, LMO (Université Paris-Saclay, CNRS), Orsay.  
18/08–22/08 World 1st university in Mathematics.
  - Publication of 3 articles in international peer-reviewed journals.
  - Oral presentations, in French and English, of my results in about 10 seminars.
  - Participation in about 100 presentations in French and English by international experts.
- CDD Teaching assistant in Mathematics**, Université Paris-Saclay, Gif-sur-Yvette.  
18/09–21/08 Nearly 200 hours of tutorials for about 10 groups of about 30 diverse students.

## Academic background

- 2023 Doctoral degree in Pure mathematics**, Université Paris-Saclay.
  - Laureate of a research grant from the Ministère de l'Enseignement Supérieur et de la Recherche.
  - Organisation of about 15 conferences for about 40 higher education students.
  - Supervision of about 10 workshops for about 15 primary and secondary school pupils.
  - Organisation of about 30 fundraising to offer gifts for new doctors.
- 2018 Double degree Master–Magister in Mathematics**, Université Paris-Saclay.  
Laureate in 2015 and 2017 of a 10 000€ grant for excellence from the Jacques Hadamard foundation.
- 2017 Agrégation externe in Mathematics, 67th/3582**, Ministère de l'Éducation nationale.
- 2017 Taught Master's degree in Mathematics**, Université Paris-Saclay.

## Computer skills

|          |                                  |          |                              |
|----------|----------------------------------|----------|------------------------------|
| $\LaTeX$ | (scientific documents) Expertise | Inkscape | (vector graphics) Expertise  |
| MATLAB   | (numerical analysis) Advanced    | SageMath | (computer algebra) Advanced  |
| Simulink | (modeling) Intermediate          | Python   | (data analysis) Intermediate |

## Language skills

|        |               |         |        |
|--------|---------------|---------|--------|
| French | Mother tongue | English | Fluent |
|--------|---------------|---------|--------|

## Miscellaneous interests

- Sports** Swimming, running, forest biking and mountain hiking.
- Puzzles** Creation of puzzles based on steganographic methods.