

# Cyril Falcon

*Ph.D., Professeur agrégé*

Saint-Germain-en-Laye

Yvelines, Île-de-France

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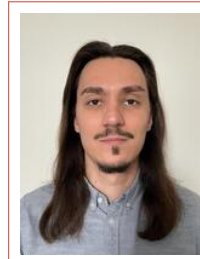
✉ [falcon.cyril@gmail.com](mailto:falcon.cyril@gmail.com)

🌐 [cyril-falcon.github.com](https://github.com/cyril-falcon)

in [falcon-cyril](https://github.com/falcon-cyril)

French citizenship

Born on August 4th, 1994 in Bordeaux



Ph.D. in pure mathematics and specialist in the R&D of algorithms for inertial navigation. I apply the latest developments in stochastic process estimation and statistical learning to infuse innovative dynamics into the cutting-edge industry. My scientific expertise and ability to rally teams help catalyze joint successes.

## Work experience

CDI **R&D engineer in Navigation algorithms**, Exail, Saint-Germain-en-Laye.  
23/05– World 1st company in advanced technologies for resilient navigation.

- Development of inertial navigation algorithms by multi-sensors data fusion.
- Design of statistical tests for validation and monitoring of navigation performance.
- Statistical modelling of sensor errors and assessment of navigation performance.
- Publication of 1 article in an international peer-reviewed journal.
- Supervision of a 6-month end-of-study internship on a RNN-aided Kalman filtering.

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.  
○ Organization of about 15 conferences for about 40 higher education students.  
○ Supervision of about 10 workshops for about 15 primary and secondary school pupils.  
○ Organization 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.

## Computer skills

LaTeX (scientific documents) Expertise  
MATLAB (numerical analysis) Advanced  
Simulink (modelling) Intermediate

Inkscape (vector graphics) Expertise  
SageMath (computer algebra) Advanced  
Python (data analysis) Intermediate

## Language skills

French Mother tongue

English Fluent

## Miscellaneous interests

Sports Swimming, running, MTB riding and mountain hiking.  
Puzzles Puzzles creation relying on steganographic methods.