

# Cyril Falcon

*Ph.D., Professeur agrégé*

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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 inertial navigation algorithms by multi-sensors data fusion.
  - Design of statistical tests for validation and monitoring of navigation performance.
  - Data analysis and simulations for prediction and statistical modelling of navigation errors.
  - Publication of 1 article in an international peer-reviewed journal.
  - Supervision of a 6-month end-of-study internship on the use for inertial navigation of a Kalman filter aided neural network.
- 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.

## Computer skills

$\text{\LaTeX}$	(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
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## Miscellaneous interests

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