

# Céline WANG

## PhD Student in Mathematics Applied to Ecology

Titled “Mathematical Models for the Reproduction and Migration of Forest Species”  
Under the supervision of O. GOUBET and F. PACCAUT

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Lille

## Education

### PhD in Mathematics applied to Ecology (Université de Lille)

ANEDP team at Laboratoire Paul Painlevé & PARADYSE team at Inria

Oct 2023–Present

### Master’s Degree in Engineering (Centrale Lille)

General education (Sep 2019–Jul 2021), gap year (Sep 2021–Sep 2022), Data Science program (Sep 2022–Sep 2023)

Sep 2019–Oct 2023

### Master’s Degree in Mathematics (Université de Lille)

Sep 2022–Apr 2023

### Agrégation externe de Mathématiques (Université de Lille)

The highest competitive test to become a mathematics teacher in France

Sep 2021–Jul 2022

### CPGE, Math-Physical Sciences Branch (Lycée Saint-Louis)

Sep 2017–Jul 2019

## Papers and Communications

### Feller Property and Absorption of Diffusions for Multi-Species

Metacommunities – with Benoît HENRY

arXiv [2601.16616](https://arxiv.org/abs/2601.16616)

Jan 2026

### (Talk) Journée modélisation mathématique pour l’écologie (Amiens)

Nov 2025

### (Talk) Journée des doctorants en mathématiques de la fédération des Haut-de-France (Lens)

Sep 2025

### (Talk) ANEDP Team Day

May 2025

### (Talk) PhD Students Seminar

May 2025

### (Poster) Applied Analysis and Modeling (Lille)

Nov 2024

## Teaching

### Probability 2 – Markov Chains (Master 1, Data Science)

Tutorials (8h) and labs (4h, only 2026)

Jan 2024–Feb 2026

## General Mathematics (Licence 1, Math-Info)

Tutorials on a half-semester (36h) each year

📅 Sep 2023 – Dec 2025

## Remediation (Licence 1, SVTE)

Tutorials, refresher course (16.5h)

📅 Sep 2025

## Thematic Studies (Licence 1, Math-Info and MPCSI)

Tutorials, 4 groups (10h per group)

📅 Jan 2024 – Jan 2025

## Oral Examinations (ECS2, MPSI, MP2I, Lycée Faidherbe)

📅 Sep 2021 – Feb 2023

### Other Work Experience

#### 📅 Internship: Trinov (Paris)

Waste management software, 1 semester, 2023

#### 👤 Volunteering at AFEV

20h of tutoring for a 10 year-old child, 2020

#### 🌱 Internship: Les Amis Recycleurs

La Recyclerie (Paris)

Repair of household appliances, 5 weeks, 2020

### Other

#### 🗣️ Languages

French (native), Chinese (native), English (fluent), Spanish (conversational)

#### 🔗 Programming Languages and Software

Python,  $\LaTeX$  (fluent), Git

#### 🎵 Music

Piano (Cycle 3 at Conservatoire de Lille), writing (beginner)

#### 🖍️ Drawing