

# ETIENNE HENRY

## *Curriculum vitae*

### ABOUT ME

Deeply concerned about biodiversity issues, my aspiration is to serve as a professor in conservation sciences. Committed and conscientious, I am dedicated to develop the expertise needed to describe, comprehend, and monitor biodiversity. My research interests lie in macroecology & movement patterns, with a specific focus on avian species.

### CONTACT

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- Driving License B

### RESEARCH EXPERIENCE

2023 – 2026

#### **PhD**

*Mobilising tracking data on African-Eurasian migratory birds to support their conservation*

CEFE, CNRS  
Montpellier France

- Supervisors: Ana Rodrigues (CEFE), Inês Catry (CIBIO)
- Problematics:
  - What is driving the population declines Afro-Eurasian migratory landbirds?
  - How are migration patterns along the Afro-Eurasian flyway predicted to change in response to ongoing threats?
  - What are the priority actions for the conservation of African-Eurasian migratory landbirds at the flyway scale?

2022

#### **2nd year Master project**

*Modelling the probability of meeting IUCN Red List criteria to support reassessments*

iDiv  
Leipzig, Germany

- Supervisors: Victor Cazalis (iDiv), Moreno Di Marco & Luca Santini (Sapienza University)
- Activities: Comparative extinction risk modelling on birds; coding the IUCN criteria calculator; collaboration with many conservationists and researchers from the sRedlist research group.

2021

**1st year Master project**

*Map the transfer of  
knowledge through citizen  
sciences: case study of  
amphibians on iNaturalist*

CEFE, CNRS,  
Montpellier, France

- Supervisors: Ana Rodrigues (CEFE-CNRS) & Marie-Morgane Rouyer (CEFE-CNRS)
- Activities: collating and managing spatial data; data analysis on R and QGIS; mapping; survey to iNaturalist users (design, implementation, data analysis); scientific writing; presenting talks at team meetings and international scientific conferences.

2020

**BSc project**

*Impact of the pollinator  
decline on the french  
common flora*

CESCO, MNHN, CNRS  
Paris, France

- Supervisors: Emmanuelle Porcher (CESCO-MNHN) Gabrielle Martin (CESCO-MNHN)
- Activities: collecting data from the citizen science program Vigie-Flore; data analysis on R; scientific writing; presenting talks at team meetings and international scientific conferences

2019

**BSc project**

*Phaeodactylum tricornutum  
response to phosphate  
depletion and function of an  
antisense non-coding RNA*

ENS, Institute of Biology, CNRS,  
Inserm, Paris, France

- Supervisors: Maria Helena Cruz de Carvalho (IBENS-CNRS)
- Activities: genetic analysis on diatoms; laboratory work; poster

## TEACHING EXPERIENCE

2023 – 2024

**University of Montpellier**

- 16.5h tutorial classes:  
*Introduction to evolutionary concepts*, 2<sup>nd</sup> year bachelor students
- 22h practical classes:  
*Environmental management projects*, 2<sup>nd</sup> year master students

Agrégation preparatory

classes

**Ecole Normale**

**Supérieure de Lyon**

**CIRAD, CNRS**

Montpellier

Tutoring, **EMENSIP**

Teaching interventions

High School, Normandy

- 3h oral exam:

*Living organisms in the soil*, 2<sup>nd</sup> year master students

- 2h lecture: *Monitoring biodiversity*, professionals

- 21h personal classes in mathematics and physics to prepare for high school national examination, successfully passed

- 11h to present my research project + teaching high school students the tidal ecosystem

## EDUCATION

2022-2023

**Agrégation preparatory**

**classes**

*Life and Earth sciences*

École Normale Supérieure de  
Lyon, Lyon, France

· Following a one-year intensive course in biology, geology and pedagogy, I passed the Agrégation, a very competitive national examination to become a highly qualified professor to sixth-form and university students.

· Ranked 7th (out of >400 candidates)

2021-2022

**2nd year Master Degree**

*Conservation sciences*

National Museum of Natural  
History, Paris, France

· 2nd year Master degree with highest honors (17.0/20)

· Classes: biogeography & macroecology, biostatistics, population viability, socio-ecosystem functioning, GIS

2020-2021

**1st year Master degree**

École Normale Supérieure,  
Paris, France

*Ecology & Evolution*

· 1st year Master degree with highest honors (16.6/20)

· Classes: ecosystem functioning, evolutionary ecology, data analysis, biostatistics, modelling

2019-2020

**BSc**

*Life sciences*

École Normale Supérieure,  
Paris, France

· Bachelor's degree with honors (15,84/20)

· Classes: ecology, evolution, experimental ecology, biostatistics, programming

2017-2019	· Two-year undergraduate intensive courses in Earth and Life sciences in preparation to the highly competitive exam for admission to the French "Grandes Écoles", leading to admission in the École Normale Supérieure (French highest ranked school in research).
<b>Preparatory classes</b>	
<i>Life and Earth sciences</i>	
Champollion High School, Grenoble, France	
2016-2017	
<b>1st year engineer school</b>	
<i>Agronomy</i>	· Top of the class (out of >200 students)
El Purpan agronomist school, Toulouse, France	

## SCIENTIFIC OUTCOMES

### Publications

- Henry E.G., Santini L., Butchart S., ..., Cazalis V. & Di Marco M, 2023. Modelling the probability of meeting IUCN Red List criteria to support reassessments, *Global Change Biology*,
- Henry, E.G., Rouyer MM, Rodrigues A.S.L.,(in prep), Mapping the global transfer of biodiversity knowledge through citizen sciences: case study of amphibians on iNaturalist.

### Talks

- Henry, E.G. et al, 2022. Modelling the probability of meeting IUCN Red List criteria to support reassessments. **sRedList Seminar**. iDiv. Leipzig, German
- Henry, E.G., Rouyer M.M., Rodrigues A.S.L., 2021. Mapping the global transfer of biodiversity knowledge through citizen sciences, **BES Annual Meeting**. Liverpool, England
- Henry, E.G., Martin G., Porcher E., 2021. Impact of the pollinator decline on the french common flora. **Pollinéco Research Group Meeting**. MNHN. Paris, France

### Poster

- Henry, E.G., Rouyer M.M., Rodrigues A.S.L., 2021. Mapping the global transfer of biodiversity knowledge through citizen sciences, **Student Conference on Conservation Science**. Cambridge, England

## SKILLS

	<ul style="list-style-type: none"><li>◦ Manipulating and analysing very large datasets (tidyverse philosophy, e.g. &gt; 400,000 iNaturalist observations)</li></ul>
<b>R PROGRAMMING</b>	<ul style="list-style-type: none"><li>◦ Statistical analyses:<ul style="list-style-type: none"><li>- frequentist: ordinal regression models; glm; lmer</li><li>- Bayesian: brms package</li></ul></li><li>◦ Analysis of spatial data (e.g. shp, rasters, species distribution models).</li><li>◦ Visual representation of data and results (e.g., packages ggplot2)</li></ul>
<b>PYTHON PROGRAMMING</b>	<ul style="list-style-type: none"><li>◦ Algorithmic (over 50h of programming course)</li></ul>
<b>GIS</b>	<ul style="list-style-type: none"><li>◦ R, package sf</li><li>◦ QGIS</li></ul>
<b>OFFICE</b>	<ul style="list-style-type: none"><li>◦ MS Office (Excel, Word, PowerPoint)</li><li>◦ LATEX</li></ul>

## LANGUAGES

**English** – Advanced oral and written proficiency.

- 1-year exchange in Maryland (USA; during high school)
- 6 months English as a working language in Leipzig (Germany; second-year Masters project).
- Preparation of two scientific publications in English (one under review).

**French** - Native language

**Spanish** - Basic knowledge

## WORK EXPERIENCE

### 2017

Internship in a farm, Maison Vilatte Plassard Pompougnac, Dordogne, France

- Activities: extensive suckler cow farming activities, financial and strategic management of the farm, animal care (kennel), catering

### 2016 & 2018

Clinical officer, Ambroise Paré Hospital, Toulouse, France

- Activities: room maintenance and health practice