

# Dr. Etienne Loire

Life Science Educator & Researcher

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Born in 08/09/1980

## Profile

Experienced scientist with a solid foundation in biology, from molecular to ecosystems, specialized in genetics and bioinformatics, complemented by a strong international experience in science communication. Currently transitioning from a successful career in academic research to a dedicated focus on secondary education. Fluent in English and French, with significant teaching and mentoring experience in diverse cultural contexts across Southeast Asia.

## Teaching Experience

- 2006–2009 **Teaching Assistant, University of Paris – Sorbonne**, Paris, France
- Delivered 96 hours/year of tutorials and practicals in mathematics and computer science for biology undergraduates.
- 2013–2019 **School Outreach Presenter, Various High Schools and Middle Schools**, France
- Conducted 1–2 day sessions each year to introduce students to scientific careers and research topics in an age-appropriate and engaging way.
- 2015–2022 **Trainer, Genetic Data Analysis, International Partners**, France
- Developed curriculums and delivered tailored training sessions for students and adult learners on genetic and data analysis.
- 2019–2022 **Guest Lecturer, Epidemiology, Kasetsart University**, Bangkok, Thailand
- Designed and delivered an English-language statistics in epidemiology course for international students from Thailand, Vietnam, Cambodia, Laos, and Indonesia.
- 2025 **Private Tutor, AP Biology, British International School of Hanoi**, Hanoi, Vietnam
- Provided one-on-one tutoring in English for a final-year student preparing for AP Biology examinations.

## Education

- 2006–2010 **Ph.D. in Evolutionary Genetics, University of Paris – Sorbonne**, France
- 2004–2006 **Master's in Cellular and Molecular Biology, specialization in Bioinformatics, University of Paris – Sorbonne**, France, ranked 2
- 2001–2004 **B.Sc. in Life Sciences, University of Paris – Sorbonne**, France

## Research Experience

- 2015–2025 **Research Scientist, CIRAD – French Agricultural Research Centre for International Development**, Vietnam/France
- Led projects on microbial genomics, evolutionary biology, and antimicrobial resistance under the One Health framework. Managed partnerships with over 20 institutions in Southeast Asia.
- 2009–2015 **Postdoctoral Researcher, CNRS, Max Planck Institute**, France/International
- Conducted postdoctoral research in genomics, conservations, bioinformatics, and evolutionary biology
- Authors of 60 publications or conference acts, cited more than 2500 times in the scientific literature

## Teaching Philosophy

My approach to teaching science is to foster curiosity and critical thinking while ensuring that students grasp the "big picture" and core concepts with clarity. I believe in building bridges between disciplines — for example, linking biology with mathematics, computer science, or environmental studies — and in creating a dynamic learning environment.

## Languages

French Native (level C2)

English Fluent (level C1/C2)

## Skills

Teaching Curriculum development, student mentoring, science communication

Laboratory Microbiology, molecular and cellular biology, genetics, sequencing technologies

Digital R, Python, dynamic dashboards, high-performance computing, web applications

Soft skills Project management, international collaboration, conflict resolution, inclusive communication