

Dr. Etienne Loire

Life Science Educator & Researcher

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R⁶ <https://www.researchgate.net/profile/Etienne-Loire>
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