

Eglantine Mathieu-Bégné

PhD Student

Born on the 26/06/1992

Contact

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Field of expertise

- Parasitology
- Freshwater ecosystems
- Population genomics/genetics
- Bio-informatics

Generic skills:

- French (maternal language)
- English (TOEIC : 960/990)
- Permis B

Cursus:

2016-2019: PhD thesis on « Infestations mechanisms of the freshwater fish ectoparasite *Tracheliastes polycolpus*.

2015-2016: Master 2 “Biodiversity Ecology and Evolution”, University Paul Sabatier de Toulouse III

2014-2015: Master 1 “Ecology”, University Paul Sabatier de Toulouse III

2011-2014: License “Biology of Organisms, Populations and Ecosystems”, University Paul Sabatier de Toulouse III

2010-2011: “Classe Préparatoire aux Grandes Ecoles” in the field of Literatures and Social Sciences, Montaigne High school in Bordeaux

2009-2010: Science bachelor’s degree, Champollion High school (Figeac, 46)

Professional experience:

Current activity:

- PhD thesis at The **Evolution And Biological Diversity** laboratory of Toulouse, supervised by G. Loot, S. Blanchet and O. Rey

Teaching:

- 128 hours of teaching (Bio-statistics, Quantitative approaches in ecology)

Training:

- International Exploratory Workshop 2017: Ecological genomics of co-evolutionary interactions
- Experimentation on aquatic species (designer level)
- Pedagogical training

Internships:

CNRS, Station of Experimental and Theoretical Ecology, Moulis

- Environmental and genomic determinants of prevalence in an emerging parasite
- Morphological variation of two freshwater fish species (*Gobio occitaniae* and *Phoxinus phoxinus*) in the Adour-Garonne watershed
- Demographic and genetic monitoring of an host-parasite interaction
- Effect of altitude on nest composition in the Great tit (*Parus major*)

CNRS, Strasbourg

- Leadership in the Mallard duck (*Anas platyrhynchos*)

Publications and scientific contributions:

Bousquet, C. A. H., O. Petit, M. Arrivé, J.-P. Robin, and C. Sueur. 2015. Personality tests predict responses to a spatial-learning task in mallards, *Anas platyrhynchos*. *Animal Behaviour* 110:145–154.

Fourtune, L., J. G. Prunier, E. Mathieu-Begne, N. Canto, C. Veysiere, G. Loot, and S. Blanchet. 2018. Intraspecific genetic and phenotypic diversity: parallel processes and correlated patterns? bioRxiv.

Mathieu-Bégné, E., G. Loot, S. Blanchet, E. Toulza, C. Genthon, and O. Rey. 2019a. De novo transcriptome assembly for *Tracheliastes polycolpus*, an invasive ectoparasite of freshwater fish in western Europe. *Marine Genomics*.

Mathieu-Bégné, E., G. Loot, M. Chevalier, I. Paz-Vinas, and S. Blanchet. 2019b. Demographic and genetic collapses in spatially structured populations: insights from a long-term survey in wild fish metapopulations. *Oikos* 128:196–207.