

PhD Student in Behavioural Ecology

– Education –

- 2015 - present PhD in Behavioural ecology, University of Lyon 1, France
2016 Animal experimentation Degree level 1, necessary to manipulate vertebrate animal species in France
2015 Master of Science Degree in Ecology, Evolution and Biometry, University of Lyon 1, France
2013 Bachelor of Science Degree in Biology, University of Lyon 1, France

– Research Experiences –

- 2015 - 2018 **Thesis:** *The influence of the predation on the evolution of interspecific communication in passerine bird.*
Advisor: Thierry Lengagne and Jean-Paul Léna. LEHNA laboratory, University of Lyon.
2015 **Second MSc Internship** (6 months) *Mobbing behaviour of passerine birds against the pygmy owl.*
Advisor: Thierry Lengagne and Jean-Paul Léna. LEHNA laboratory, University of Lyon.
2014 **First MSc Internship** (2 months) *Density may reduce the levels of individual call identity in the little owl *Athena noctua*.* Advisor: Thierry Lengagne. LEHNA laboratory, University of Lyon.
2013 **Voluntary BSc Internship** (1 month) *Behavioural study of 3 species of primates in Amazon forest.*
Advisor: Hélène Collongues De Palomino (Ikamaperu Assoc.), Peru.
2013 **BSc Internship** (1 month) *Personality traits in the collared flycatcher *Ficedula albicollis*.* Advisor: Blandine Doligez. LBBE laboratory, University of Lyon.
2012 **Voluntary BSc Internship** (1 month) *The spatial distributions of the invasive *Lasius neglectus* ant in urban area.* Advisor: Bernard Kaufmann. LEHNA laboratory, University of Lyon.

– Acquired Skills –

Theoretical background

Ecology and Evolution – Behavioural Ecology – Animal Ecology – Antipredator strategy – Mobbing

PhD project: *My PhD focuses on a peculiar anti predator strategy, mobbing, which involved conspecific and heterospecific potential prey. Working on wild birds in the field, I determined the different ecological factors explaining such strategy use. These last years I conducted a large experimental work to understand how different passerine species encoded information about predator threat in their calls and how this information is used or ignored by both conspecifics and heterospecifics. I am increasingly interested to determine among focused species in which way the cognitive performances drive an appropriate response to predator threats.*

Main Technical Skills

Audio: Sound recording and playback

Field: Field across a range of habitats (mixed forest in Europe, rainforest, urban areas and pond) • Work on different species (birds, mammals, amphibians and insects) • Handling & banding of small nestling • Natural behavioural observations • Nighttime field work

Lab: Saliva sample prep, dissection, identification ant species

Analyzes and modelling: Generalized mixed models, Binary data analyses, Multivariate approaches, Parametric and non-parametric tests

Data processing / Specialized software

Biostatistics: R

Informatics: MS Office, web

Acoustic: Avisoft SASLab, Goldwave

Language

French: Native language

English: Scientific level, read, written and occasional oral practice

– Publications in journal with peer committee evaluation –

9. Dutour M, Léna JP, & Lengagne T. (2018). A comparative study of mobbing calls and territorial songs in birds. *Behavioral Ecology*, in prep.
8. Dutour M, Léna JP, & Lengagne T. (2018). Asymmetric mobbing behaviour between passerines. *Proc B*, in prep.
7. Dutour M, Léna JP, Dumet A, Mondy N, & Lengagne T. (2018). The relative importance of innate process and associative learning in shaping mobbing behavior of great tit fledglings. *Behavioural Ecology*, in prep.
6. Dutour M, Cordonnier M, Léna JP, & Lengagne T. (2018). Seasonal variation in mobbing behaviour of passerine birds. *Journal of Ornithology*, submit.

5. Dutour M, Lévy L, Lengagne T, Holveck MJ, Crochet PA, Perret P, Doutrelant C, & Grégoire A. (2018). Hissing like a snake: birds engage in acoustic Batesian mimicry. *Biology Letters*, submit.
4. Dutour M, Léna JP, & Lengagne T. (2018). Effect of compositional syntax manipulation on heterospecific response to mobbing call. *Proc B*, submit.
3. Dutour M, Léna JP, & Lengagne T. (2017). Mobbing calls: a signal transcending species boundaries. *Animal Behaviour*, **131**, 3-11. (doi: 10.1016/j.anbehav.2017.07.004, IF= 2.869)
2. Dutour M, Léna JP, & Lengagne T. (2017). Mobbing behaviour in a passerine community increases with prevalence in predator diet. *Ibis*, **159**, 324-330. (doi: 10.1111/ibi.12461, IF= 2.279). Highlighted in the media : Why Do Male Birds Take on Larger Predators? By Jason Bittel.
1. Dutour M, Léna JP, & Lengagne T. (2016). Mobbing behaviour varies according to predator dangerousness and occurrence. *Animal Behaviour*, **119**, 119-124. (doi: 10.1016/j.anbehav.2016.06.024, IF= 3.17)

– Science popularization (in french) –

- Lengagne T, Léna JP, & Dutour M. (2017). La Vindicté des Passereaux. *Rapaces de France*, **19**, 60-61.
- Lengagne T, & Dutour M. (2016). Impact de la densité de la densité de couples nicheurs sur la communication acoustique chez la chevêche d'Athéna (*Athene noctua*). *Le Bièvre*, **28**.
- Dutour M. (2015). Rainettes : les nouveaux méfaits de la route. *Espèces*, **18**, 8.

– Conferences –

- Dutour M, Lengagne T, & Léna JP. (2018). Comment la mésange maîtrise la syntaxe et combine des mots pour exprimer un message complexe. *8^{ème} édition Drécrypthèse*, Lyon, France, [Talk](#).
- Dutour M, Léna JP, & Lengagne T. (2018). Communication in European passerines. *3rd Parid meeting*, Strasbourg, France, [Talk](#).
- Dutour M, Léna JP, & Lengagne T. (2017). Mobbing calls: a signal transcending species boundaries. *13th international meeting of Ecology and Behaviour*, Chizé, France, [Talk](#).
- Dutour M, Léna JP, & Lengagne T. (2016). Une nouvelle méthode de détection de la chevêchette d'Europe. *2nd French meeting of mountains owls*, Allevard, France, [Talk](#).
- Lengagne T, Léna JP, & Dutour M. (2016). Pourquoi tous les passereaux ne harcèlent-ils pas la chevêchette d'Europe ? *2nd French meeting of mountains owls*, Allevard, France, [Talk](#).
- Dutour M, Léna JP, & Lengagne T. (2016). Comportement de harcèlement : les victimes se retournent contre leur bourreau ! *French meeting of Biotuesday*, Lyon, France, [Talk and Poster](#).
- Dutour M, & Lengagne T. (2015). Density may reduce the levels of individual call identity in the little owl *Athene noctua*. *French meeting of owls*, Sainte-Concorce, France, [Talk](#).

– Acquired Funds –

- 2015 - present **PhD grants**. French Ministry of Higher Education and Research
- 2016 **Mobility funding**. Doctoral school (E2M2)
- 2015 **Project funding**. General council of the Ain Department
- 2015 **Study bursary (Masters' studies)**. University of Lyon

– Journal Referee –

- | | |
|-----------|------------------|
| 1 article | Animal Behaviour |
| 1 article | Ibis |
| 1 article | PeerJ |

– Teaching Activities –

Contractual doctorate teacher at the University of Lyon 1

2015 – 2018: **Teaching duty of 64 hours per year**

- 116h Practical work in Biology of organism; first year of bachelor of biology.
- 51h Practical work in Biology of organism; second year of bachelor of biology.
- 19.5h Tutorial work in Sustainable development; second year of bachelor (all cursus).
- 6h Tutorial work in professional project; first year of bachelor (all cursus).

Students' supervision

2018: **3 students** (2 months) 3 students in third year of Bachelor of Science Degree (University of Lyon 1).

2017: **7 students** (2 months) 6 students in first year of Master (University of Lille, Rennes 1, Poitiers, Lyon 1 and Tours) and 1 student in third year of Bachelor of Science Degree (University of Paris 12).

2016: **8 students** (2 months) 4 students in first year of Master (University of Grenoble, Lyon 1 and Tours), 3 students in second year of Bachelor of Science Degree (University of Lyon 1) and 1 student in first year of Bachelor of Science Degree (IET of Lyon).

– Outreach and Public Engagement –

April 2015 **Talk**, Nuit de la chouette LPO Rhône, France

Oct. 2014 **Talk**, LPO, IET, Lyon, France

– Administration Experience –

Oct. 2015 – Oct. 2018 **Doctoral representative**. Representative at the Pedagogical and Orientation Council of the doctoral school E2M2 grouping 12 scientific laboratories (Lyon, France)

Sept. 2015 – Aug. 2016 **Vice president of the organization committee** of the international Ecology and Behaviour meeting 2016, Lyon, France gathering 100 participants from 9 countries

2015 **Active member of the organization committee** of the French meeting of owls, Sainte-Concorce, France

2014 – present **Administrator** of Ligue pour la Protection des Oiseaux (LPO) Rhône, Lyon, France

– Referees –

Thierry LENGAGNE – *Thesis director*

thierry.lengagne@univ-lyon1.fr

UMR CNRS 5023 LEHNA, University of Lyon 1, France

Claire DOUTRELANT – *Co-author*

clairedoutrelant@cefe.cnrs.fr

UMR 5175 CEFE, CNRS-University of Montpellier, France