

Jérôme GIPPET

Current address:

University of Lyon 1
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Education

2013-2016

Ph. D. Urban ecology and Human-mediated dispersal, University of Lyon 1 (LEHNA, France): “Patrons de distribution, dispersion et variations intraspécifiques au sein des paysages urbanisés : *Réponses des fourmis à l’urbanisation*”

Supervisors: Nathalie MONDY and Bernard KAUFMANN

2012-2013

M.Sc. Ecology, Microbial ecology, Evolution, specializing in Ecology, Evolution and Biometry, University of Lyon 1 (LEHNA, France)

Internships

Second year: “Secondary spread of the invasive ant *Lasius neglectus* in an urbanized landscape”

Advisor: Bernard Kaufmann.

First year: “Environmental factors shaping ants assemblages in an invasion context”

Advisor: Bernard Kaufmann.

2007-2012

Bachelor Biology of organisms and populations, University of Lyon 1 (LEHNA, France)

Internships

“Myrmecochoric dispersal by *Myrmica sabuleti* of the endangered violet *Viola hispidula* »

Advisor: Bernard Kaufmann

“Beneficial interactions between two invaders: the japanese knotweeds *Fallopia* spp and the invasive garden ant *Lasius neglectus*”

Advisor: Bernard Kaufmann.

Technical and IT skills

Field techniques:

Sampling of ants with several protocols (e.g. direct search, baits, pitfalls) in urban and natural contexts
Ant supercolony's area measurement

Lab skills:

Behavioral experiments (foraging behavior, aggressiveness in a supercolonial species)
Taxonomic identification of ants
Common garden experiments (rearing of *L. niger* gynes)
Myrmecochory experiments (*Myrmica sabuleti*, *Viola hispida*)

Molecular biology techniques:

DNA extraction (Chelex) and amplification (Cytochrome Oxidase I and microsatellites)
RNA extraction and Reverse transcription
RT qPCR (Heat Shock Protein genes)

IT skills:

Geographic Information Systems (*ArcGIS 10.1*, *QGIS*)
Statistical analysis with *R*
Genetic data analysis (*R adegenet*, *Structure*, *POPTREE2*, *seaview*)
Programming (*R*, *Python*)
Illustration (*R*, *Inkscape*)

Supervision of students

2016

Supervisor of **Barthélémy Richoux** (Master 1, University of Lyon 1) and **Baptiste Bunouf** (Master 1, University of Lyon 1): "Morphologic variation between urban and rural populations of the urban tolerant ant *Lasius niger*"

2015

Supervisor of **Django Maurel** (Master 1, University of Angers), **Jérémy Monsimet** (Master 1, University of Rennes 1), **Tommy Faure-Brac** (Master 1, University of Grenoble) and **Camille Blain** (Master 1, University of Saint Etienne): "Impact of urbanization on ant colonies density"

2014

Supervisor of **Jordan Galli** (Master 1, University of Montpellier 2) and **Sylvestre Rivière** (Master 1, University of Rennes 1): "Impact of urbanization on ant colonies density"

Teaching experience

2013-2016

Teaching assistant at the university of Lyon 1 (192h):

Animal biology

Behavioral ecology (M.Sc.)

Biodiversity conservation

Entomology

Grants

2015

Research project Grants (5000 €) from Complex systems institute (IXXI)

“MoRIS: Modeling human-mediated secondary spread of invasive species”

2014

Inter-Labs research funding (5000€) from FR41 (Bio Environnement Santé, Lyon)

“HSP genes expression in urban and rural populations of the ant *Lasius niger*”

2013

Lab transversal funding (1700 €)

“Eco-physiologic and genetic variation in urban and rural populations of the ant *Lasius niger*”

2013

Three years thesis grant (60,000 €), ED 341, Lyon. French Ministry of National Education, Higher Education and Research.

Complementary information

Languages:

French (native language), English (professional working proficiency), Spanish (spoken)

Experience abroad:

Ecuador, Vietnam, Costa Rica, Switzerland

Peer reviewed publications

Gippet JMW, Mondy N, Diallo-Dudek J, Bellec A, Dumet A, Mistler L and Kaufmann B (2016) I'm not like everybody else: urbanization factors shaping spatial distribution of native and invasive ants are species-specific. *Urban Ecosystems In press*

Gippet JMW, Grangier J, Colin T, Winkler F, Haond M, Bellec A, Dumet A, Mondy N, and Kaufmann B. Come together: host-parasite co-invasion dynamics are affected by urbanization. *Submitted*

Gippet JMW, Piola F, Rouifed S, Viricel MR, Puijalon S, Douady C, and Kaufmann B. Got to get you into my life: Are invasive knotweeds and invasive garden ants facilitating each other? *Submitted*

Gippet JMW, Rocabert C, Mondy N and Kaufmann B. Why ecologists should focus on the “human” in “Human-mediated dispersal” *Submitted*

Gippet JMW, Rocabert C, Fenet S and Kaufmann B. MoRIS: Model of Routes of Invasive Spread. Modeling, estimating and predicting human-mediated secondary spread of invasive species. *In prep*

Other publications

2015

Les amphibiens et reptiles de Rhône-Alpes. LPO coordination Rhône-Alpes, Lyon 448pp. (GIS and data analyses)

2012

Regards sur les milieux naturels et urbains de l'agglomération lyonnaise. Grand Lyon 276pp.
“Des cités dans la ville: les fourmis des milieux urbains dense et tertiaires” p170-179.

Communications

2016

August 2016: “MoRIS: Model of Routes of Invasive Spread. Human-mediated dispersal, road network and invasion parameters” **Gippet JMW**, Fenet S, Dumet A, Kaufmann B, Rocabert C. IENE 2016 international conference, “*Integrating transport infrastructure with living landscapes*” Lyon (France).

2015

July 2015: “Modeling human mediated spread at the landscape scale: road network and invasion parameters. The example of the Invasive ant *Lasius neglectus*” **Gippet JMW**, Rocabert C, Fenet S, Dumet A, Kaufmann B. RMA 2015 international conference, “*Modélisation et durabilité pour la biodiversité et les services écosystémiques*” Bordeaux (France).

August 2015: “Impact de l'urbanisation sur la composition des communautés de fourmis” **Gippet JMW**, Dumet A, Mondy N, Kaufmann B. “*28^{ème} Congrès UIEIS Section française*” Tours (France).

2014

October 2014: “Modéliser la propagation d’origine humaine à l’échelle du paysage : réseau routier et paramètres d’invasion” **Gippet JMW**, Rocabert C, Kaufmann B. “Colloque de lancement du GdR InvaBio” Rennes (France).