

# Thibaut Morel-Journal

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## POSTDOCS

### CIRB (CNRS)

WITH F. BLANQUART

2021 - Present | Center for Interdisciplinary Research in Biology

### ISA (INRAE)

WITH E. VERCKEN

2021 | Institut Sophia Agrobiotech

### BIOEPAR (INRAE/ONIRIS)

WITH P. EZANNO AND E. VERGU

2018 - 2020 | Unit 'Biologie, Epidemiologie et Analyse des Risques en santé animale'

### ELI (UNIV. CATH. LOUVAIN)

WITH N. SHTICKZELLE

2016 - 2018 | Earth and Life Institute, co-financed by Marie Curie actions

## EDUCATION

### PHD IN ECOLOGY

2015 | Univ. Nice, financed by doctoral scholarship

*Thesis: Stratégies d'introduction d'organismes dans un environnement spatialement structuré*

### MASTER'S DEGREE IN BIOLOGY

2012 | Univ. Lyon 1

*Thesis: Agrégation et productivité des chercheurs : de l'effet Allee aux politiques de la science*

### BACHELOR'S DEGREE IN BIOLOGY

2010 | Univ. Lyon 1

## SKILLS

### COMPUTATIONAL MODELLING

Stochastic, compartment-based, individual-based, to simulate infection spread, microbiome and population dynamics in time and space, and through networks

### STATISTICAL ANALYSES

Multivariate analyzes, regressions (GLM, non-parametric, mixed-effects, survival analyses), variance-covariance matrix analyzes, approximate Bayesian computation

### EXPERIMENTAL DESIGN

Design of multivariate experimental plans, and microcosm experiments of meta-population dynamics of insects and protists

### SUPERVISION

Interns and technical staff for experiments and modelling

### PROGRAMMING

in R and python

### LANGUAGE

French (native), English (very good)

## TEACHING EXPERIENCE

### SUPERVISION

- Master's degree  
Suzon Rondeaux (2018, Univ. Cath. Louvain), Marjorie Haond (2015, Univ. Lyon 1), Pierre Girod (2013, Univ. Nice)
- Engineer diploma  
Claire Rais Assa (2015, AgroParisTech), Camille Piponiot (2015, AgroParisTech)
- DUT  
Maud Hautier (2014, Univ. Toulouse III)

### COURSES

- Master's degree at AgroParisTech  
*Modélisation de la dynamique des épidémies dans les populations animales et végétales* (2022)  
*Apport de l'épidémiologie à la maîtrise des risques sanitaires* (2021 & 2022)
- Bachelor's degree at Université Catholique de Louvain  
*Gestion de projet professionnel* (2018)

### JURY

- Master's degree at Université Catholique de Louvain  
*Biologie des Organismes et Écologie* (2017 & 2018)

## SCIENTIFIC REFERENCES

### FRANÇOIS BLANQUART

Researcher at CNRS

(françois.blanquart@college-de-france.fr)

### ELODIE VERCKEN

Research Director at INRAE

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### ELISABETA VERGU

Research Director at INRAE

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