



Dr. Jennifer MORINAY

CBD Centre for Biodiversity Dynamics – Institute for Biology – NTNU
Trondheim – NORWAY

✉ jennifer.morinay@gmail.com

<https://jennifermorinay.wordpress.com>

Date of birth: 20 / 08 / 1988

Nationality: french

🐦 @JenniferMorinay



RESEARCH POSITIONS

2021 → 2023 (2 years)

MSCA Postdoctoral fellow, CBD, Trondheim, Norway.

📍 Research project: 'Linking seasonal migration and dispersal: A large-scale demographic and social approach in a wild partially migratory metapopulation'

2020 → 2021 (1 year ½)

Postdoctoral fellow, ISPRA, Bologna, Italy.

📍 Research project: 'Making informed breeding and foraging site selection decisions: the case of colonial breeders'

2018 → 2019 (1 year)

Lecturer (E&R), University of Lyon, LBBE (Biometry & Evolutionary Biology Department)

📍 Research project: 'Role of cognitive abilities on the use of social information'

2014 → 2018 (4 years)

Ph.D. student, University of Lyon (France) and Uppsala University (Sweden).

📍 Thesis: 'Sources of variability in heterospecific social information use for breeding habitat selection: Role of genetics and personality in collared flycatchers'

2012 → 2014 (1 year ½)

Field research assistant in Antarctica - Overwintering, Dumont d'Urville research station (Adelie Land, Antarctica) for IPEV, IPHC/CNRS (France), and CSM (Monaco).

- Emperor and Adelie Penguins intensive long-term monitoring

2012 (6 months – MSc thesis)

Research assistant, CIBIO (Porto, Portugal) and CEFE/CNRS (Montpellier, France).

- Thesis: 'Evolution of birdsong on islands: a comparative study of island-mainland pairs of passerines for different acoustic traits'

2011 (2 months – MSc research)

Research assistant, Marine Mammal Research Centre (Vancouver, Canada).

- Independent research project: 'Development of a novel GIS-based method to identify gaps in the spatial distribution of a species, using opportunistically collected data'

2010 → 2011 (10 months – MSc research)

Research assistant, CEBC/CNRS (Chizé, France)

- Independent research project: 'Behavioural responses of Antarctic fur seals to changes in resource distribution: an individual based model approach (in C++)'



ON-GOING COLLABORATIONS

Behavioural Ecology of Collared Flycatchers and Great Tits

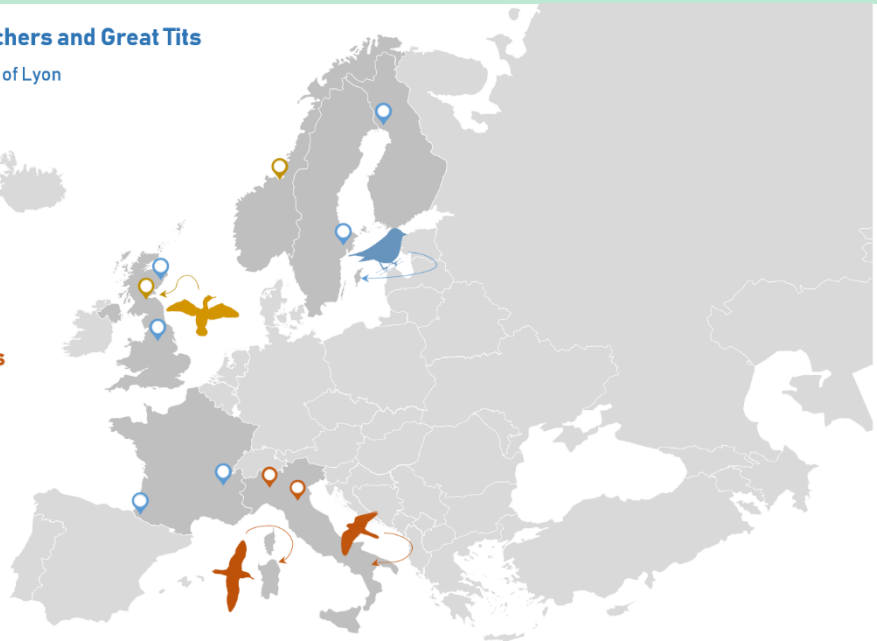
-  Dr. Blandine Doligez · LBBE, CNRS, University of Lyon
-  Dr. Charlotte Recapet · University of Pau
-  Thibault Tamin · LBBE, University of Lyon
-  Pr. Lars Gustafsson · Uppsala University
-  Pr. Jukka Forsman · Luke
-  Dr. Sami Kivelä · University of Oulu
-  Dr. Jere Tolvanen · University of Oulu
-  Dr. Marion Germain · University of Sheffield
-  Dr. Laure Cauchard · University of Aberdeen
-  Dr. Pierre Bize · University of Aberdeen

Movement Ecology of Colonial Breeders

-  Dr. Jacopo G. Cecere · ISPRA
-  Pr. Diego Rubolini · University of Milan
-  Federico De Pascalis · University of Milan
-  Dr. Simona Imperio · ISPRA
-  Dr. Giacomo Assandri · ISPRA
-  Dr. Michelangelo Morganti · CNR

Population Ecology of European Shags

-  Pr. Jane M. Reid · NTNU, Trondheim
-  Dr. Paul Acker · NTNU, Trondheim
-  Pr. Francis Daunt · CEH, Edinburgh



EDUCATION

- 2019** **Qualifications for University Lecturer positions** in ‘Population Biology and Ecology’ and ‘Organismal Biology’ (France)
- 2018** **PhD** in evolutionary and behavioural ecology
Joint international degree between the University of Lyon (LBBE – CNRS, France) and Uppsala University (Department of Ecology and Genetics, Animal Ecology, Sweden)
- 2012** **MSc** in ‘Ecology, Biodiversity, and Evolution’, specialisation in Evolutionary Ecology
AgroParisTech, Paris, France - Upper second-class honours (*Bien*).
- 2012** **Engineer** diploma in Agronomy - Biological and Environmental Sciences
AgroParisTech (Paris Institute of Technology and Environmental Sciences), Paris, France



TEACHING EXPERIENCE

Innovative teaching and pedagogical tools used:

Games to hack the theory (Ideal Free Distribution, Producer-scrunner, ...), Flipped classroom, Collaborative work, Hands-on work in R, Interactive quizz

2022 · Teaching assistant, NTNU, Trondheim, Norway (in English)

- Behavioural Ecology, practical sessions (16h). Level: BSc 2nd year.

2014→ 2019 · Temporary lecturer, University of Lyon, France (in French)

- Statistics and Mathematics applied to biology (18h). Level: BSc 3rd year.
- Quantitative genetics (42h). Level: BSc 2nd year.
- Comparative anatomy and evolution of vertebrates (14h). Level: BSc 2nd year.
- Zoology (106h). Level: BSc 1st year.
- Sustainable development (48h). Level: BSc 1st year.

2018 (1 week) · Temporary lecturer, Uppsala University, Sweden (in English)

- Biostatistics in R (1.5h). Level: PhD.

2009-2010 (4 months) · Assistant lecturer, UMB University, Norway (in English)

- Introduction to genetics (48h). Level: BSc 1st year.

SUPERVISING EXPERIENCE

2021 · Supervision in the field

1 PhD student, 3 field assistants

2015 → 2017 · Supervision in the field and for small research projects

30 students in BSc or MSc, 4 field assistants, 3 consecutive months/year

2015 → 2019 · Supervision for small research projects (using R software and databases)

11 students in BSc or MSc at the University of Lyon, from 3 weeks to 2 months

ANALYTICAL & TECHNICAL SKILLS



Analyses and software

- **Statistical analyses** using the **R** software – including: Generalised Linear Mixed effects Models (Bayesian and frequentist framework) · Model averaging · Quantitative genetic “Animal models” (MCMCglmm R package, ASReml) · Survival models (Cox) · PCA
- **Spatial data analysis** (R, QGIS)
- **Quantitative genetics**
- **Bioacoustic** analyses (Avisoft, Audacity)
- **Social Network** Analyses (R)
- **Programming and algorithm** development (very good command of R, good command of C++)
- **Database** creation, development, handling (Access, SQL, R)



Field work skills

- **Management:** Team leading in autonomy (up to 15 persons) and coordinating work among 3 international teams. Preparation and day-by-day field work planning.
- **Experiments:** Designing, planning and implementing protocols.
- **Wild vertebrate ringing / tagging, measuring and handling:** passerine birds (trapping in boxes and mist-netting), lesser kestrels, shearwaters, penguins, snow and cape petrels, Antarctic skuas, elephant seals, fur seals.
- **Sampling:** behavioural observations and personality tests, blood sampling (birds and mammals), anaesthesia (seals), song recording and playback experiments, dissections, necropsies.
- **Logger deployment:** GPS, accelerometers, TDR and Argos.



Languages: French (native), English (fluent), Norwegian (basics), Italian (basics), German (basics)

ACADEMIC RESPONSABILITIES & MEMBERSHIP

Academic reviewer:

Acta Ethologica · Animal Behaviour · Behavioural Ecology and Sociobiology · Ibis · Journal of Ornithology · PeerJ

Organisation of scientific events:

‘2016 Ecology & Behaviour’ International conference held in Lyon, France

‘Being a good peer-reviewer’, workshop held at NTNU, Norway

Current membership to scientific societies:

SFE² · French Ecological & Evolutionary Society

BES · British Ecological Society

IOU · International Ornithological Union

ASAB · Association for the Study of Animal Behaviour

ESLR · Early-career Social Learning Researchers

EOU · European Ornithological Union

COMPETITIVE GRANTS

Fellowship:

- 2021 – 2023** Marie Skłodowska-Curie individual fellowship · NTNU, Norway · 214 k€ MSCA fellowship
2017 – 2018 Evolutionary Biology Centre, Uppsala University, Sweden · 34 k€ PhD fellowship, salary
2014 - 2017 French Ministry of Higher Education & Research · 67 k€ PhD fellowship, salary

Other grants: 18 grants other than salary in 5 years (approx. 50 000€)

- 2015 - 2019** Foundation for Zoological research, Uppsala University (“Uppsala Zoological foundation UZF grant”) · 19 400 €, 4 research grants
2017 IDEXLYON · 4 800 €, mobility grant
2016 French embassy in Sweden · 1 500 €, mobility grant
Liljewalch foundation · 4 850 €, research grant
French Society of Ecology · 750 €, field work grant
Doctoral school grant, Lyon University · 300 €, training grant to Oulu University, Finland
Lyon University Research Council · 600 €, training grant to Oulu University, Finland
2015 Animal Behaviour Society · \$ 1 000, research grant
Lyon University Research Council · 300 €, training grant to CEFE, Montpellier, France
ISBE – International Society of Behavioural Ecology · \$ 700, congress attendance grant
Explora'Doc, Lyon University · 4 200 €, mobility grant
2014 The Journal of Experimental Biology · £ 2 500, mobility grant
The European Society for Evolutionary Biology, Godfrey Hewitt Mobility Award · 1 750 €
The American Museum of Natural History, Chapman grant · \$ 2 000, research grant
Explora'Doc, Lyon University · 4 200 €, mobility grant

PRIZES & AWARDS

- 2021** Best talk award at the Behavioural Ecology Meeting, University of Padova, Italy.
2019 Best poster award at the 6th Young Natural History Scientists Meeting, Paris, France
2012 Second best poster award at 9th National Congress of the Portuguese Society of Ethology, Lisbon, Portugal.

INVITED SEMINARS

- 2021** • Institut for Biology, NTNU Norwegian university of science and technology. 3rd of December.
Grant writing workshop – Writing a successful Marie Skłodowska-Curie fellowship proposal.
- 2019** • Biogeosciences Research Unit, UMR CNRS, University of Burgundy, Dijon, France. 10th of January.
Sources of variability in heterospecific social information use for breeding habitat selection.
- 2018** • LBBE, Association for PhD students and postdocs, University of Lyon, France. 22nd of March.
Research ethics and good research practices.
- Edward Grey Institute, Department of Zoology, Oxford University, UK. 27th of February.
Personality and social information use in a wild bird.
- ‘Revolution days’, Department of Ecology and Genetics / Animal Ecology, Uppsala University, Sweden. 15th of February.
Behavioural syndromes in collared flycatchers.
- 2016** • ‘Revolution days’, Department of Ecology and Genetics / Animal Ecology, Uppsala University, Sweden. 18th of February.
Heritability of social information use: an experiment on breeding site selection.

- 2014 • Colloquium of Quantitative Genetics in Wild Populations, University Paul Sabatier, Toulouse, France. 10th of November.

Role of personality traits in the use of information for habitat selection: project presentation.

COMMUNICATIONS AT CONFERENCES

- 2021 [12] Oral · 8th International congress on the conservation of Lesser Kestrels, 29 June - 2 July. Rubolini D and **Morinay J**
[11] Oral · ASAB easter meeting, 14-16 April. **Morinay J**,..., Rubolini D and Cecere JG
[10] Oral · Behavioural Ecology Meeting, 7-8 April, Padova, Italy. **Morinay J**,..., Rubolini D and Cecere JG
- 2019 [9] Oral · ASAB summer meeting “New Frontiers in the Study of Animal Behaviour”, 26-28 August, Konstanz, Germany. **Morinay J**, Forsman JT, and Doligez B
[8] Poster · 14th Ecology & Behaviour Conference, 20-24 May, Toulouse, France. **Morinay J**, Forsman J, and Doligez B
[7] Poster · 6th Young Natural History Scientists Meeting, 12-15 March, MNHM, Paris, France. **Morinay J**, Forsman JT, and Doligez B
- 2018 [6] Poster · International Ornithological Congress, 20-26 August, Vancouver, Canada. **Morinay J**, Forsman JT, Daniel G, Germain M, and Doligez B
- 2017 [5] Oral · Ecology Across Borders Conference, 11-14 December, Gent, Belgium. **Morinay J**, Forsman JT, Daniel G, Germain M, Gustafsson L and Doligez B
[4] Oral · 11th European Ornithological Union conference, 18-22 August, Turku, Finland. Invited presentation at a symposium ‘Evolutionary consequences of social information use’. **Morinay J**, Forsman JT, Daniel G., Germain M, Gustafsson L and Doligez B
- 2016 [3] Oral · International Conference of Ecological Sciences SFécologie, 24-27 October, Marseille, France. **Morinay J**, Forsman JT, Kivelä S, Gustafsson L and Doligez B
[2] Poster · 16th Congress of the International Society of Behavioural Ecology (ISBE), 28 July-3 August, Exeter, UK. **Morinay J**, Kivelä S, Forsman JT, Gustafsson L and Doligez B
- 2012 [1] Poster · 9th National Congress of the Portuguese Society of Ethology, 12-13 April, Lisbon, Portugal. **Morinay J**, Cardoso G, Covas R and Doutrelant C

PEER-REVIEWED PUBLICATIONS

- 2022 [14] Giacomo Assandri et al. (14 co-authors), Context-dependent foraging habitat selection in a farmland raptor along an agricultural intensification gradient, *Agriculture, Ecosystems & Environment*, 326: 107782. doi: 10.1016/j.agee.2021.107782
- 2021 [13] **Morinay J**, De Pascalis F, Dominoni D, Morganti M, Pezzo F, Pirrello S, Visceglia M, De Capua EL, Cecere JG and Rubolini D, Combining social information use and comfort-seeking for nest site selection in a cavity-nesting raptor. *Animal Behaviour*, 180: 167-178. doi: 10.1016/j.anbehav.2021.07.014.
[12] De Pascalis F, Pada D, Pisu D, **Morinay J**, Benvenuti A, Spano C, Ruiu A, Serra L, Rubolini D and Cecere JG, Searching on the edge: dynamic oceanographic features increase foraging opportunities in a small pelagic seabird. *Marine Ecology Progress Series*, 668: 121-132. doi: 10.3354/meps13726.
- 2020 [11] **Morinay J***, Cauchard L*, Bize P and Doligez B, The role of cognition in social information use for breeding site selection: Experimental evidence in a wild passerine population. *Frontiers in Ecology and Evolution*, 8: 559690. doi: 10.3389/fevo.2020.559690. *Equal contribution

- [10] Tolvanen J, Kivelä SM, Doligez B, **Morinay J**, Gustafsson L, Bijma P, Pakanen VM and Forsman JT, Quantitative genetics of the use of conspecific and heterospecific social cues for breeding site choice. *Evolution*, 74(10): 2332-2347. doi: 10.1111/evo.14071.
- [9] **Morinay J**, Forsman JT, Germain M and Doligez B, Behavioural traits modulate the use of heterospecific social information for nest site selection: experimental evidence from a wild bird population. *Proceedings of the Royal Society B: Biological Sciences*, 287(1925): 20200265. doi: 10.1098/rspb.2020.0265
- [8] **Morinay J**, Forsman JT and Doligez B, Heterospecific song quality as social information for settlement decisions: an experimental approach in a wild bird. *Animal Behaviour*, 161: 103-113. doi: 10.1016/j.anbehav.2020.01.002
- [7] Ahnesjö I*, Brealey J*, Günter K*, Martinossi-Allibert I*, **Morinay J***, Siljestam M*, Stångberg J*, Vasconcelos P*, Considering gender-biased assumptions in evolutionary biology. *Evolutionary Biology*, 47(4): 1-5. doi: 10.1007/s11692-020-09492-z. *Equal contribution, authors in alphabetical order.
- [6] Norte AC et al., (42 co-authors) Host dispersal shapes the population structure of a tick-borne bacterial pathogen. *Molecular Ecology*, 29(3): 485-501. doi: 10.1111/mec.15336
- 2019** [5] **Morinay J**, Daniel G, Gustafsson L and Doligez B, No evidence for behavioural syndrome and genetic basis for three personality traits in a wild bird population. *Animal Behaviour*, 153:69-82. doi: 10.1016/j.anbehav.2019.05.001
- 2018** [4] **Morinay J**, Forsman JT, Kivelä S, Gustafsson L and Doligez B, Heterospecific nest site copying behavior in a wild bird: assessing the influence of genetics and past experience on a joint breeding phenotype. *Frontiers in Ecology and Evolution*, 5:167. doi: 10.3389/fevo.2017.00167
- 2017** [3] Massardier L, **Morinay J**, Bailleul F, Wajnberg E, Coquillard P and Guinet C, Breeding success of a marine central place forager in the context of climate change: a modelling approach. *PLoS ONE*, 12(3): e0173797. doi: 10.1371/journal.pone.0173797
- 2014** [2] Ancel A, Cristofari R, Fretwell P, Trathan P, Wienecke B, Boureau M, **Morinay J**, Blanc S, Le Maho Y, Le Bohec C, Emperors in hiding: when ice-breakers and satellites complement each other in Antarctic exploration. *PLoS ONE*, 9(6): e100404. doi:10.1371/journal.pone.0100404
- 2013** [1] **Morinay J**, Cardoso G, Doutrelant C* and Covas R*, The evolution of birdsong on islands. *Ecology and Evolution*, 3:5127-5140. doi: 10.1002/ece3.864. *co-last authors.

OTHER PUBLICATIONS

- 2021 • Morinay J, Cecere JG, Assandri G, Rubolini D, Tsiopelas N, Trigou R, Morganti M, Conservation du Faucon crécerellette: un enjeu climatique. Rapaces de France, Revue annuelle de la LPO.
- Morinay J, Cecere JG, Morganti M, Tsiopelas N, Serra L, Rubolini D and Assandri G, Technical report summarizing the migration and wintering behaviour of GPS-deployed lesser kestrels under sub-action A3.2 of the LIFE project "LIFE FALKON" (LIFE17 NAT/IT/000586). www.lifefalkon.eu
- 2020 • Morganti M, Tsiopelas N, Rubolini D, Morinay J and Cecere JG, Development of technical blueprints for the construction of nesting towers and of protocols for nestboxes installation under action A.2 of the LIFE project "LIFE FALKON" (LIFE17 NAT/IT/000586). www.lifefalkon.eu