Marion Chatelain - PhD

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RESEARCH EXPERIENCE

2016-

(Marie Curie fellowship)

2015-2016

(Assistant Lecturer)

2012-2015

(PhD)

2012 (4 months) (master 2)

2011 (2 months)

(master I)

2009 (I month) (elective)

PUBLICATION LIST

2016

2016

2016

2016

Trace metal effects on wild great tit *Parus major* oxidative stress and fitness in a gradient of urbanisation.

Center of New Technologies, University of Warsaw (Warsaw, Poland); Marie Sklodowska-Curie cofund grant (Polonez I); In collaboration with Marta Szulkin

Effects of habitat characteristics on earthworm dispersal and habitat choice.

Institut d'Ecologie et des Sciences de l'Environnement (IEES), Pierre & Marie Curie University (Paris, France); In collaboration with Jérôme Mathieu

Trace metals as a selective pressure on urban birds' physiology and their melanin-based plumage colouration

Institut d'Ecologie et des Sciences de l'Environnement (IEES), Pierre & Marie Curie University (Paris, France); Supervised by Adrien Frantz and Julien Gasparini

Role of predation on the evolution of aposematism and mimicry-behavioral study on the European Starlings

Institute of Neuroscience (Newcastle, UK); Supervised by Candy Rowe

Benefits and trade-offs of the viviparous and oviparous mode of reproduction in the Common Lizard

UMR7625 Ecologie & Evolution (Paris, France); Supervised by Josepha Bleu and Sandrine Meylan

Characterize the micro-morphological traits of *Frenelopsis* by scanning electron microscope

UMR5276 Laboratoire de géologie de Lyon Terre, Planète, Environnement (Lyon, France); Supervised by Bernard Gomez

Chatelain M., Gasparini J. and Frantz A. 2016. Do trace metals select for darker birds in urban areas? An experimental exposure to lead and zinc. *Global Change Biology*. 10.1111/gcb.13170

Chatelain M., Gasparini J. and Frantz A. 2016. Trace metals, melanin-based pigmentation and their interaction influence immune parameters in feral pigeons (*Columba livia*). *Ecotoxicology*. 10.1007/s10646-016-1610-5

Chatelain M., Gasparini J., Haussy C. and Frantz A. In press. Trace metals affect early maternal transfer of immune components in the feral pigeon. *Physiological and Biochemical Zoology*.

Chatelain M., Frantz A., Gasparini J. and Leclaire S. 2016. Experimental exposure to trace metals affects plumage bacterial communities in the feral pigeon. *Journal of Avian Biology*. 10.1111/jav.00857

2014

2014

2013

Sum up of the publications

Chatelain M., Gasparini I., Jacquin L. and Frantz A. 2014. The adaptive function of melanin-based plumage coloration to trace metals. *Biology Letters*. 10(3): 20140164

Leclaire S., Pierret P., Chatelain M. and Gasparini J. 2014. Feather bacterial load affects plumage condition, iridescent color, and investment in preening in pigeons. *Behavioral Ecology*. 25(5): 1192-1198

Chatelain M., Halpin C. and Rowe C. 2013. Ambient temperature influences birds' decisions to eat aposematic prey. *Animal Behaviour*. 86(4):733-740

Journal	Year	Author	5-years impact factor
Animal Behaviour	2013	ère	3,423
Behavioral Ecology	2014	3 ème	3,350
Biology Letters	2014	ère	3,670
Ecotoxicology	2016	ère	2,940
Global Change Biology	2016	ère	8,708
Journal of Avian Biology	2016	ère	2,104
Physiological and Biochemical Zoology	2016	ère	2,480
7 42 citations 6 in 1 st auth		6 in 1st autho	r

Reviewer for

DEGREES

2016

2012-2015

2010-2012

2007-2010

Behavioral Ecology and Sociobiology; Frontiers in zoology; Journal of Toxicology and Risk Assessment

Apt to a position of associate professor in population biology and ecology.

PhD in Evolutionary Ecophysiology (awarded with the highest distinction)
Pierre & Marie Curie University (Paris, France)

Master's degree in Ecology, Biodiversity and Evolution (awarded with high honours)

Muséum national d'histoire naturelle (Paris, France)

Bachelor's degree (three-year university degree) in Biology of Organism and Populations (awarded with honours)

Claude-Bernard Lyon I University (Lyon, France)

COMMUNICATIONS

2015

How may trace metals exert selective pressures on melanin-based colouration? The European Society of Evolutionary Biology Conference, Lausanne, Switzerland.

Oral presentation.

Trace metals: ecophysiological responses and their influence on melanin-based plumage colouration polymorphism. Synthesis seminar of the Dens'Cité programme (funded by Sorbonne University), Paris, France. Oral presentation.

2015

2014

Does trace metal could explain the higher frequency of darker pigeons in cities? Petit Pois Déridé, Orsay, France. Oral presentation.

2014

Does melanin-based plumage colouration is adaptive to trace metals polluted environments? The International Society for Behavioral Ecology Conference, New York, EU. Poster presentation,

2013

Adaptation to trace metals: an explanation to melanin-based coloration polymorphism in the feral pigeon. Colloque d'Ecophysiologie Animale (animal ecophysiology congress), Lyon, France. Oral presentation.

TEACHING ACTIVITIES

2015-2016

Assistant lecturer (ATER) in ecology and biostatistics (192h)

Pierre & Marie Curie University (Paris, France)

OTHER ACTIVITIES

2015-2016

Organizer of monthly scientific discussions based on recent published research ("Discussions Autour D'un Article"), IEES-Paris (France)

2015-2016

Organizer of monthly meetings between PhD students ("Déjeuners Des Doctorants"), IEES-Paris (France)

2015

Main organizer of a discussion between PhD students and supervisors about "A

thesis: its carrying out and supervising", IEES-Paris (France)

2014-2015

Delegate of PhD students in the Institute of Ecology and Environmental Sciences of Paris, and the Ecology & Evolution department, IEES-Paris (France)

2013-2014

Co-organizer of the inter-teams seminars ("Séminaires Inter-Equipes"), IEES-Paris (France)

SKILLS

<u>Languages</u>

French: maternal language

English: read, written, spoken (4 months in England)

German: studied in secondary school

Polish: level A1 of the CECR

Computing

Pack Office, R, Gimp, Image J, GeneMapper, SpectraSuite

Laboratory skills

Sample acid mineralization (blood, feathers, eggs, organs)
Trace metals analysis (ICP-MS, Flame-AAS, Oven-AAS, ICP-

OES)

Enzyme-linked immunosorbent assay (ELISA)

Colorimetric spectrometric analysis

Field skills

Level I Diploma in Animal Experimentation (2013)

[birds]: capture, livestock keeping, morphometric measurements, reproduction monitoring, blood sampling, under-cutaneous injections, behavioural observations

[lizards]: capture, livestock keeping, morphometric measurements

[earthworms]: capture, livestock keeping, species identification, morphometric

measurements behavioural observations