EVOLUTIONARY BIOLOGIST

RESEARCH FIELDS

Ecological Adaptation, Ecological Speciation, Local Adaptation, Parasite-Mediated Selection, Host-Parasite Coevolution, Within-Host Parasite Interaction

CONTACT / PERSONAL DATA

ACADEMIC EXPERIENCES

☎ Phone

+49 1520 421 8668

@ Email

erin@evolbio.mpg.de

■ Address

Scheerstraße 9

24 306 Plön, Germany Personal Website

noemieerin.github.io

Citizenship French

Place & Date of Birth

Saint-Michel, France / 28.11.1984

EDUCATION

Ph.D. / DEGREE

University of Kiel, Germany 2009-2017

MASTER / DEGREE

Université Pierre et Marie Curie Paris, France 2007-2009

BACHELOR / DEGREE

Université Pierre et Marie Curie Paris, France 2006-2007

ENGINEER SCHOOL

ISAB, Beauvais, France 2005-2006

CPGE BCPST

LGT Baimbridge, Pointe-à-Pitre, France 2002-2005

BACCALAURÉAT SCIENTIFIQUE

Lycée Maîtrise de Massabielle Pointe-à-Pitre, France June 2002

POSTDOCTORAL RESEARCHER

Max Planck Institute for Evolutionary Biology, Plön, Germany
June 2017-Feb 2018

Ph.D RESEARCHER

Max Planck Institute for Evolutionary Biology, Plön, Germany
Thesis: "Multiple ecological scales of host-parasite interactions using the
three-spined stickleback and Schistocephalus solidus model system"

Advisor: Dr. Martin Kalbe
Sept 2009-May 2017

MASTER 2

Laboratoire Ecologie et Evolution CNRS UMR-7625, Host-Parasite Interaction Group, UPMC, Paris // Bacterial Zoonoses Unit, French Agency for Food, Environmental & Occupational Health Safety (ANSES), Maisons-Alfort

Thesis: "Impact of urban environment on Chlamydiaceae epidemiology in feral pigeon (Columba livia)"

Advisors: Julien Gasparini & Karine Laroucau
Feb 2009-June2009

RESEARCH ASSISTANT

UMR-1272 UPMC-INRA, Reception Transduction Modulation Unit, UPMC, Paris
Biomolecular analyses and behavioral studies on the olfaction of Drosophila
melanogaster and Spodoptera littolaris
Advisor: Thomas Chertemps

July 2008-Aug 2008

MASTER 1

ENS UMR-7618 Bioemco, École Normale Supérieure-Ulm, Paris

Thesis: "Study of the atmospheric CO2 elevation impact in FACE (Free Air CO2 Enrichment) system on soil functioning"

Advisor: Bertrand Guenet Apr 2008-June 2008

TEACHING

2010 & 2015 Master student supervision

Two weeks practical course, part of Prof. Dr. Manfred Milinski annual lecture on "Evolutionary Ecology of Sexual Reproduction" at the Christian Albrechts University of

Kiel, Germany

2010 & 2011 Master student co-supervision (with Dr. Martin Kalbe)

Four-weeks rotation of applicants to the International Max Planck Research School

(IMPRS) of Evolutionary Biology, Plön, Germany

ACADEMIC SERVICES

Sept 2018 Talking Evolution: Workshop on Principles and Advances in Evolutionary Thinking

Max Planck Institute for Evolutionary Biology, Plön, Germany

Member of the organising committee

May 2010 Aquavit, Annual Research Meeting

Max Planck Institute for Evolutionary Biology, Plön, Germany

Member of the organising committee

Reviewer Scientific Reports

AWARDS

Sept 2015 1st prize for best oral presentation

Annual Retreat of the International Max Planck Research School for Evolutionary Biology,

Geestland, Germany

Nov 2011 3rd prize for best poster

3rd Status Symposium in Evolutionary Biology, Sylt, Germany

LANGUAGES Mother tongue: French

Fluent: English

Lower intermediate: Spanish, German

REFERENCES

Dr. Christophe Eizaguirre (c.eizaguirre@qmul.ac.uk)

School of Biological and Chemical Sciences

Queen Mary, University of London

Fogg Building, Mile End Road, London E1 4NS

Dr. Demetra Andreou (dandreou@bournemouth.ac.uk)

Bournemouth University

Christchurch House C238, Talbot Campus, Fern Barrow, Poole, BH12 5BB

Dr. Kenyon Mobley (kenyon.mobley@helsinki.fi)

Evolution, Conservation, and Genomics

University of Helsinki

Viikinkaari 9 (PL 56) Biocenter 1 00790 Helsinki Finland

Dr. Tobias L. Lenz (lenz@evolbio.mpg.de)

Max Planck Institute for Evolutionary Biology

August-Thienemann-Str.2 24 306 Plön, Germany

Dr. Julien Gasparini (julien.gasparini@upmc.fr)

Institut d'Ecologie et des Sciences de l'Environnement (IEES)

Université Pierre et Marie Curie,

Bat. A, 7 ème étage, 7 quai Saint-Bernard, 75 005 Paris

PUBLICATIONS

2018	Henrich T, Erin NI , Phelps L & Kalbe M Intraspecific within-host parasite competition alters virulence in a fish-cestode system (in preparation)
	Erin NI , Henrich T, Samonte IE, Jakobsen PJ & Kalbe M Examining the role of parasites in limiting unidirectional gene flow between lake and river sticklebacks (submitted to Journal of Animal Ecology)
2017	Weber JN, Kalbe M, Shim KC, Erin NI , Steinel NC, Ma L & Bolnick DI (2017) Resist globally, infect locally: A transcontinental test of adaptation by stickleback and their tapeworm parasite. <i>The American Naturalist</i> , 189: 43-57. (doi: 10.1086/689597)
2016	Scharsack JP, Franke F, Erin NI , Kuske A, Büscher J, Stolz H, Samonte IE, Kurtz J & Kalbe M (2016) Effects of environmental variation on host-parasite interaction in three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Zoology</i> , 119: 375-383. (doi: 10.1016/j.zool. 2016.05.008)
2014	Franke F, Rahn AK, Dittmar J, Erin NI , Rieger JK, Haase D, Samonte-Padilla IE, Lange J, Jakobsen PJ, Hermida M, Fernández C, Kurtz J, Bakker TCM, Reusch TBH, Kalbe M & Scharsack JP (2014) <i>In vitro</i> leukocyte response of three-spined sticklebacks (<i>Gasterosteus aculeatus</i>) to helminth parasite antigens. <i>Fish & Shellfish Immunology</i> , 36: 130-140. (doi: 10.1016/j.fsi.2013.10.019)
2013	Jacquin L, Récapet C, Prévot-Julliard AC, Leboucher G, Lenouvel P, Erin NI , Corbel H, Frantz A & Gasparini J (2013) A potential role for parasites in the maintenance of color polymorphism in urban birds. <i>Oecologia</i> , 173: 1089-1099. (doi: 10.1007/s00442-013-2663-2)
2011	Gasparini J, Erin NI , Bertin C, Jacquin L, Vorimore F, Frantz A, Lenouvel P & Laroucau K (2011) Impact of urban environment and host phenotype on the epidemiology of <i>Chlamydiaceae</i> in feral pigeons (<i>Columba livia</i>). <i>Environmental Microbiology</i> , 13: 3186-3193. (doi: 10.1111/j.1462-2920.2011.02575.x)

COMMUNICATIONS

2016 May

Final Symposium of the DFG Priority Programme SPP1399 Host-Parasite Coevolution - Rapid Reciprocal Adaptation and its Genetic Basis, Münster, Germany. *Poster presentation entitled:* "Relaxed parasite selection reduces resistance and limits gene flow between stickleback lake and river ecotypes"

2015 September

Annual Retreat of the International Max Planck Research School for Evolutionary Biology, Geestland, Germany. *Oral presentation entitled:* "Parasite-mediated selection in Norwegian three-spiked stickleback populations"

May

Aquavit, Annual Research Meeting of the Max Planck Institute for Evolutionary Biology, Plön, Germany. *Oral presentation entitled:* "Parasites as habitat-specific selection factors in a natural hybrid zone of three-spine sticklebacks"

2014 July

Aquavit, Annual Research Meeting of the Max Planck Institute for Evolutionary Biology, Plön, Germany. *Oral presentation entitled:* "Parasite-mediated selection in Norwegian three-spiked stickleback populations"

2012 May

Aquavit, Annual Research Meeting of the Max Planck Institute for Evolutionary Biology, Plön, Germany. *Oral presentation entitled:* "Parasite strain-specific selection for different MHC alleles in experimental stickleback populations"

2011 November

3rd Status Symposium in Evolutionary Biology, Sylt, Germany. *Poster presentation entitled:* "Immune gene expression in sympatric and allopathic stickleback-tapeworm combinations"

September

Jacques Monod Conference 2011 - Coevolutionary arms race between parasite virulence and host immune defence: challenges from state of the art research, Roscoff, France. *Poster presentation entitled:* "Immune gene expression in sympatric and allopathic stickleback-tapeworm combinations"

August

13th Congress of the European Society for Evolutionary Biology (ESEB), Tübingen, Germany. *Poster presentation entitled:* "Looking for the molecular basis of local host adaptation to a specific macroparasite"

May

2nd Symposium of the DFG Priority Programme SPP1399 Host-Parasite Coevolution - Rapid Reciprocal Adaptation and its Genetic Basis, Berlin, Germany. *Oral presentation entitled:* "Molecular basis of local adaptation in a specific host-parasite system, three-spiked stickleback and *Schistocephalus solidus*"

March

Aquavit, Annual Research Meeting of the Max Planck Institute for Evolutionary Biology, Plön, Germany. *Oral presentation entitled:* "Parasite strain-specific selection for different MHC alleles in experimental stickleback populations"

2010 December

1st Bioinformatics Workshop of the DFG Priority Programme SPP1399 Host-Parasite Coevolution - Rapid Reciprocal Adaptation and its Genetic Basis, Rothenberge, Germany. *Oral presentation entitled:* "Looking for the molecular basis of the virulence evolution in a specific parasite system"

October

1st Evolutionary Genetics Workshop of the Society of Genetics, Koppelsberg, Germany. Oral presentation entitled: "Host-parasite Genotype x Genotype interactions in sympatric and allopatric combinations"

May

Aquavit, Annual Research Meeting of the Max Planck Institute for Evolutionary Biology, Plön, Germany. *Oral presentation entitled:* "Host-parasite Genotype x Genotype interactions in sympatric and allopatric combinations"