

CURRICULUM VITAE

Emily R. Burdfield-Steel

(updated 26th February 2018)

Surname and Names: Burdfield-Steel, Emily Rose
Gender: Female
Date and Place of Birth: 04/05/1988, Luton (United Kingdom).
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EDUCATION AND DEGREES

PhD. in Biology. University of St Andrews, St Andrews, UK 2010 – 2014

MSc. in Evolutionary Genetics and Genomics, University of Manchester, UK 2009 - 2010
Passed with Merit

BSc(Hons) in Zoology. University of Manchester, Manchester, UK 2006 – 2009
First class degree

CURRENT POSITION

Assistant Professor 2019 -
Institute for Biodiversity and Ecosystem Dynamics
University of Amsterdam (UvA)

PREVIOUS WORK AND RESEARCH EXPERIENCE

Endeavour Fellow 2017 - 2018
Department of Biological Sciences
Macquarie University

Post-Doctoral Researcher 2014 – 2018
Centre of Excellence in Biological Interactions Research,
University of Jyväskylä

Graduate Researcher 2010-2014
School of Biology, University of St Andrews
Evolutionary ecology, behavioural assays, insect life history assays, mate choice experiments, field experiments and surveys in Sicily, computerised tomography of insect genital morphology and analysis of insect cuticular hydrocarbons using mass spectrometry.

Graduate Researcher 2009-2010

Department of Life Sciences, University of Manchester

DNA extraction, population genetic analysis, microsatellites, sequencing and field sampling in Belize.

RESEARCH FUNDING AND FELLOWSHIPS

Tieteen Tiedotus Ry – Evolution in Action project (€ 96 000)	2019-2020
ESEB Outreach grant (€ 1200)	2018
Endeavour Research Fellowship	2017-2018
ESEB Outreach grant (€ 1100)	2017
Natural Environment Research Council (NERC) doctoral studentship.	2010-2014
Researcher stipend + fees (approximately 57 000 GBP)	
Biotechnology and Biological Sciences Research Council (BBSRC) funding for MSc.	2009-2010
Researcher stipend + fees (approximately 19 000 GBP)	

LEADERSHIP AND SUPERVISION

Co-supervision of a PhD student	2018 - date
Co-supervisor of a Masters student	2018 - date
Co-supervisor of a Masters student	2017
Co-supervisor of a Masters student	2014 – 2016
University of Jyvaskyla	
Co-supervisor of an honours student	2013 - 2014
University of St Andrews	

TEACHING

Course co-ordinator for Plant-soil interactions practical course	2019
Co-ordinator and Lecturer for Philosophy & Ethics of Science	2018
Guest Lecturer for Evolutionary ecology and life history evolution	2018
Demonstrator on undergraduate course “Biology 1”	2013
Lecturer for the Biology Sutton Trust Summer School	2013
Demonstrator on honours course “Advanced Topics in Ecology & Evolution”	2012 - 2013
Demonstrator on sub-honours Marine Ecology Field Course	2011 - 2012
Demonstrator on “Statistics for Biologists: Introduction to R” course	2011 - 2013

AWARDS, PRIZES AND HONOURS

First prize for scientific activity, public outreach, and team spirit	2017
Centre of Excellence in Biological Interactions	

Best poster presentation (3 rd place) 100 EU Congress of the European Society for Evolutionary Biology	2017
Honourable mention for scientific activity, public outreach and team spirit Centre of Excellence in Biological Interactions	2015
Best Student Poster Presentation Award. 50 GBP PopGroup47	2014
Second place in the Student Oral Presentation Award. 75 GBP Royal Entomological Society's Annual National Science Meeting	2013
Outstanding Achievement Award (for gaining the highest mark in Zoology that year) The University of Manchester. 100GBP	2009

OTHER ACADEMIC MERITS

Manuscript referee for: *Animal Behaviour, BMC Evolutionary Ecology, Systematic Entomology, Insect Science, Journal of Insect Behavior, Tropical Ecology, Polar Biology, Behavioral Ecology, Biology Letters, Behaviour, Evolution*

ADMINISTRATIVE RESPONSIBILITIES

Co-ordinator of Departmental activities during EU Researcher's Night	2016-2018
Member of the Athena SWAN committee (promotion of equality and diversity) University of St Andrews, School of Biology	2013-2014
President of the St Andrews Postgraduate Biology Network	2012-2013
Conference Organiser for School of Biology Postgraduate conference University of St Andrews, School of Biology	2012/2013
Postgraduate Health and Safety Committee Member University of St Andrews, School of Biology	2010-2011
Postgraduate Student Representative for MSc Evolutionary Genetics and Genomics University of Manchester, Department of Life Sciences	2009-2010

SELECTED PUBLICATIONS

Burdfield-Steel E., Brain M., Rojas B., Mappes J. (2018) The price of safety: food deprivation in early life influences the efficacy of chemical defence in an aposematic moth. OIKOS.
doi:10.1111/oik.05420

Briolat E.S., **Burdfield-Steel E.R.**, Paul S.C., Rönkä K.H., Seymoure B.M., Stankowich T. & Stuckert A.M.M. (2018) Diversity in warning coloration: Selective paradox or the norm? *Biological Reviews*. <https://doi.org/10.1111/brv.12460>

Burdfield-Steel, E., Pakkanen, H., Rojas, B., Galarza, J. A. & Mappes, J. (2018) De novo synthesis of chemical defences in an aposematic moth. *Journal of Insect Science*. 18(2)

Rojas, B.‡, **Burdfield-Steel, E.‡**, Pakkanen, H., Suisto, K., Maczka, M., Schulz, S. & Mappes, J. (2017) How to fight multiple enemies: target-specific chemical defences in an aposematic moth. (‡Equal contribution). *Proceedings of the Royal Society B*. 2017 284 20171424

Shuker, D.M. & **Burdfield-Steel, E.R.** (2017), Reproductive interference in insects. *Ecological Entomology*, 42: 65–75. doi:10.1111/een.12450

Burdfield-Steel, E.R. & Shuker, D.M. (2014) Mate-guarding in a promiscuous insect: species discrimination influences reproductive interference in seed bugs. *Evolutionary Ecology*, 28:1031–1042.

Burdfield-Steel, E.R. & Shuker, D.M. (2011) Reproductive interference. *Current Biology*, 21: R450-451.

SCIENTIFIC AND SOCIETAL IMPACTS OF RESEARCH

Founding member of the Evolution in Action project (<http://www.evolutioninactionworkshops.com>)

13 peer-reviewed publications, three of which have received considerable media attention:

Discover Magazine – Moth Makes Different Chemical Weapons for Different Predators

Recent Research Presentations at International Meetings:

Emily Burdfield-Steel, Bibiana Rojas, Miriam Furlanetto, Cristina Ottocento, Morgan Brain, Johanna Mappes “Honest signalling – testing the resource allocation hypothesis” ISBE 2018 (Oral presentation)

Emily Burdfield-Steel, Bibiana Rojas, Hannu Pakkanen, Susanne Doubler, Jutta Sneider, Johanna Mappes “Jack of all trades or master of one? Targeted chemical defence in wood tiger moths” ESEB 2017 (Poster presentation)

Emily Burdfield-Steel, Swanne Gordon, Johanna Mappes “Safety in numbers? How colour morph frequency affects predation risk in an aposematic moth” OIKOS 2017 (Oral presentation)

Emily Burdfield-Steel, Morgan Brain, Bibiana Rojas, Johanna Mappes “Red or Dead - honest signalling in the wood tiger moth” ISBE 2016 (Oral presentation)

Emily Burdfield-Steel and David M. Shuker “Reproductive interference and sexual selection” Behavioral interference between species symposium, ISBE 2016 (Oral presentation)
