

CURRICULUM VITAE

Emily R. Burdfield-Steel

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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

OTHER EDUCATION AND TRAINING

Postgraduate Conference Attendee at Tutoring and Assessment Training Course 2011

LANGUAGE SKILLS

English (Mother tongue)

CURRENT POSITION

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

PREVIOUS WORK AND RESEARCH EXPERIENCE

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

Endeavour Research Fellowship	2017-2018
ESEB Outreach grant 2017 (€ 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-supervisor of a Master's student	2017
Co-supervisor of a Master's student University of Jyväskylä	2014 – 2016
Co-supervisor of an honours student University of St Andrews	2013 - 2014
I assisted with the student's experimental design and was responsible for teaching and supervising their laboratory work. The student later received a Certificate of Commendation by the Zoological Society of London for his thesis. The work resulted in a peer-reviewed publication.	

TEACHING

Demonstrator on undergraduate course "Biology 1"	2013
I assisted students in learning and performing basic laboratory techniques including microscopy and transformation of E. coli.	
Lecturer for the Biology Sutton Trust Summer School	2013
I wrote and presented a 45 minute lecture on Sexual Conflict and its impact on evolution to Year 12 pupils as part of an initiative to encourage students from non-privileged homes to apply to University.	
Demonstrator on honours course "Advanced Topics in Ecology & Evolution"	2012 - 2013
I assisted in marking student led presentations and discussion on key topics in ecology and evolution.	
Demonstrator on sub-honours Marine Ecology Field Course	2011 - 2012
My role was to assist students in carrying out ecological and biodiversity surveys at the sea shore. I also helped students with experimental design and statistical analysis as they carried out semi-independent projects.	

Demonstrator on “Statistics for Biologists: Introduction to R” course 2011 - 2013
My role was to provide guidance to students on the appropriate statistical tests to use for certain data types and to help troubleshoot any issues students came across while using the R statistical software package.

Peer Assisted Study (PASS) leader 2007 - 2008
After undertaking training, I organised and ran workshops and revision sessions for first year undergraduates in the Life Sciences and acted as a go between for students and staff on issues such as lecture style and content.

AWARDS, PRIZES AND HONOURS

Best poster presentation (3rd place) 100 EU 2017
Congress of the European Society for Evolutionary Biology

Honourable mention for scientific activity, public outreach and team spirit 2015
Centre of Excellence in Biological Interactions

Best Student Poster Presentation Award. 50 GBP 2014
PopGroup47

Second place in the Student Oral Presentation Award. 75 GBP 2013
Royal Entomological Society’s Annual National Science Meeting

Outstanding Achievement Award (for gaining the highest mark in Zoology that year) 2009
The University of Manchester. 100GBP

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*

ADMINISTRATIVE RESPONSIBILITIES

Co-ordinator of Departmental activities during EU Researcher’s Night 2016-2017

Member of the Athena SWAN committee (promotion of equality and diversity) 2013-2014
University of St Andrews, School of Biology

President of the St Andrews Postgraduate Biology Network 2012-2013

Conference Organiser for School of Biology Postgraduate conference 2012/2013
University of St Andrews, School of Biology

Postgraduate Health and Safety Committee Member 2010-2011
University of St Andrews, School of Biology

Postgraduate Student Representative for MSc Evolutionary Genetics and Genomics 2009-2010
University of Manchester, Department of Life Sciences

SCIENTIFIC AND SOCIETAL IMPACTS OF RESEARCH

Ten peer-reviewed papers, two of which have attracted considerable media attention:

Dougherty et al. 2013 (*Animal Behaviour*) was covered by Science Now (“Sexual Cannibalism Is a Case of ‘He Said, She Said’” 15 January 2013). As the co-first author and corresponding author on this paper I gave a phone interview to the author of the article.

Dougherty et al. 2015 (*Proceedings of the Royal Society, Series B*) was covered by The Guardian (“Unkindest cut? Insect penis gets the chop in the name of science”) and BBC News (“St Andrews team find size affects sexual reproduction in seed bugs”).

Research Presentations at International Meetings:

Emily Burdfield-Steel, Bibiana Rojas, Hannu Pakkanen, Susanne Doubler, Jutta Sneider, Johanna Mappes (2017) “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 (2017) “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 (2016) “Red or Dead - honest signalling in the wood tiger moth” ISBE 2016 (Oral presentation)

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

Emily Burdfield-Steel, Morgan Brain, Bibiana Rojas, Johanna Mappes (2015) “Truth and lies: honest signalling and automimicry in an aposematic insect” Behavior 2015 (Oral presentation)

Emily Burdfield-Steel and David M. Shuker (2015) “Reproductive Interference and Sexual Selection” Behavior 2015 (Poster presentation and speed talk)

Emily Burdfield-Steel, Morgan Brain, Bibiana Rojas, Johanna Mappes (2015) “Truth and lies: honest signalling and automimicry in an aposematic insect” Graduate Seminar on Insect Evolutionary Ecology (Oral presentation)

Emily Burdfield-Steel, Juan A. Galarza, Artemis Filippou, Juho Niva, Sari Viinikainen, Johanna Mappes (2015) “Sex-biased dispersal in an aposematic moth” PopGroup48 (Poster presentation)

Emily Burdfield-Steel and David M. Shuker (2014) “Do the benefits of polyandry scale with inbreeding?” PopGroup47 (Poster presentation)

Emily Burdfield-Steel, Terry K. Smith, David M. Shuker (2013) "The scent of a bug – do CHCs play a role in seed bug mate discrimination?" Royal Entomological Society's Annual National Science Meeting (Oral presentation)

Emily Burdfield-Steel and David M. Shuker (2013) "Why is there so little pre-copulatory choice in a promiscuous seed bug?" Congress of the European Society for Evolutionary Biology (Oral presentation)

Emily Burdfield-Steel and David M. Shuker (2013) "Why is there so little pre-copulatory choice in a promiscuous seed bug?" ASAB Easter Conference (Oral presentation)

Emily Burdfield-Steel and David M. Shuker (2013) "Why is there so little pre-copulatory choice in a promiscuous seed bug?" Scottish Conference on Animal Behaviour (Oral presentation)

Emily Burdfield-Steel and David M. Shuker (2012) "Mate, Eat or Avoid? – Investigating Reproductive Interference between seed bug species" Scottish Conference on Animal Behaviour (Poster presentation)

Emily Burdfield-Steel and David M. Shuker (2011) "Mistaken Identity – Investigating Reproductive Interference between seed bug species" ASAB Winter Meeting (Poster presentation)
