

CURRICULUM VITAE

Emily R. Burdfield-Steel

(updated June 2022)

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

Graduate Researcher 2009-2010
Department of Life Sciences, University of Manchester

RESEARCH FUNDING AND FELLOWSHIPS

ASAB Research Grant - Costs of anti-aphrodisiacs in a nocturnal moth (€ 2527)	2019
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

Supervision of a PhD student - Hannah Broeckx, University of Amsterdam	2021 - date
Co-supervision of a PhD student - Renée van Schaijk, University of Amsterdam	2019 - date
Co-supervision of a PhD student - Elise Fruitet, University of Amsterdam	2018 - date
Co-supervision of a PhD student - Chiara De Pasqual, University of Jyväskylä	2018 – date
Co-supervisor of a Masters student -Brendan Baker, Western Sydney University	2018 - 2019
Co-supervisor of a Masters student - Cristina Ottocento, University of Jyväskylä	2018
Co-supervisor of a Masters student - Miriam Furlanetto, University of Jyväskylä	2017
Co-supervisor of a Masters student - Morgan Brain, University of Jyväskylä	2014 – 2016

TEACHING

I received my University teaching qualification (BKO) in 2021

University of Amsterdam

Co-ordinator Future Earth bachelors project (BSc 3rd year)	2021 – date
Lecturer Ecophysiology (BSc 1 st year)	2020 - date
Lecturer Evolutionary Biology (BSc 2 nd year)	2020 - date
Supervisor mini-review (BSc 2 nd year)	2020 - date
Course co-ordinator for Plant-soil practical course (BSc 2 nd year)	2019 - date

University of Jyväskylä

Co-ordinator and Lecturer for Philosophy & Ethics of Science (PhD)	2018
Guest Lecturer for Evolutionary ecology and life history evolution (MSc)	2018

AWARDS, PRIZES AND HONOURS

Selected to join the Amsterdam Young Academy (board member since 2021)	2020
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First prize for scientific activity, public outreach, and team spirit Centre of Excellence in Biological Interactions	2017
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, Evolution Letters, Journal of Ethology, Biological Journal of the Linnean Society, Insects, eLife*

Special issue guest editor for *Insects*
Consulting editor for *Animal Behaviour*

ADMINISTRATIVE RESPONSIBILITIES

Member of the Education Committee for the Biology BSc (UvA)	2021-date
Member of the NAEM (Netherlands Annual Ecology Meeting) organising committee	2020-date
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

SELECTED PUBLICATIONS

De Pasqual C., Groot, A.T., Mappes, J. & **Burdfield-Steel, E.** Evolutionary importance of intraspecific variation in sex pheromones, *Trends in Ecology & Evolution*;
<https://doi.org/10.1016/j.tree.2021.05.005>

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.

OUTREACH ACTIVITIES

Designed and ran “Pokemon Evolution” game during Science Park Open Day (2019)

Ran ecology workshops for schoolchildren as part of project Altair (2019)

Invited speaker for International Women and Girls in Science day at IBENS (2019)

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

RECENT RESEARCH PRESENTATIONS AT INTERNATIONAL MEETINGS

Emily Burdfield-Steel, Elise Fruitet, Thomas Blankers, Astrid Groot “Coping with change – how can chemical communication systems overcome disruptions?” ESEB 2019 (Poster presentation)

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)
