

FILIP RUZICKA

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PROFESSIONAL EXPERIENCE

25/02/2019 – present	Research Fellow with Dr Tim Connallon	<i>Monash University Melbourne, Australia.</i>
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EDUCATION

01/01/2015– 28/12/2018	PhD: “The genetics and evolutionary dynamics of sexually antagonistic polymorphisms in <i>Drosophila melanogaster</i> ”. Supervisors: Prof. Max Reuter and Prof. Kevin Fowler .	<i>University College London United Kingdom.</i>
01/09/2012– 01/11/2013	MRes Biodiversity, Evolution & Conservation	<i>University College London, Institute of Zoology and London Natural History Museum United Kingdom.</i>
01/09/2009– 01/08/2012	Bsc Biological Sciences	<i>University College London United Kingdom.</i>

PUBLICATIONS

2022	<p>Ruzicka, F., Holman, L., Connallon, T. (2022). Polygenic signals of sex differences in selection in humans from the UK Biobank. <i>PLOS Biology</i>, 20:e3001768.</p> <p>Ruzicka, F., Reuter, M. (2022). Evolutionary Genetics: Dissecting a sexually antagonistic polymorphism. <i>Current Biology (Dispatch)</i>, 35:PR828-R830</p> <p>Connallon, T., Beasley, I.J., McDonough, Y., Ruzicka, F. (2022). How much does the unguarded X contribute to sex differences in lifespan? <i>Evolution Letters</i> 6:319–329.</p> <p>Ruzicka, F., Connallon, T. (2022). An unbiased test reveals no enrichment of sexually antagonistic polymorphisms on the human X chromosome. <i>Proceedings of the Royal Society B: Biological Sciences</i> 289:202123142</p>
2021	<p>Ruzicka, F., Connallon T., Reuter, M. (2021). Sex differences in deleterious mutational effects in <i>Drosophila melanogaster</i>: combining quantitative and population genetic insights. <i>Genetics</i> 219:iyab143</p> <p>Jardine, M., Ruzicka, F., Diffley, C., Fowler, K., Reuter, M. (2021). A non-coding indel polymorphism in the <i>fruitless</i> gene of <i>Drosophila melanogaster</i> exhibits</p>

	antagonistically pleiotropic effects. <i>Proceedings of the Royal Society B: Biological Sciences</i> 288:20202958.
2020	<p>Ruzicka, F.*, Connallon, T.* (2020). Is the X chromosome a hot spot for sexually antagonistic polymorphisms? Biases in current empirical tests of classical theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> 287:20201869.</p> <p>Ruzicka, F.*, Dutoit, L.*, Czuppon, P., Jordan, C.Y., Li, X-Y, Olito, C., Runemark, A., Svensson, E.I., Yazdi, H.P., Connallon, T. (2020). The search for sexually antagonistic genes: Practical insights from studies of local adaptation and statistical genomics. <i>Evolution Letters</i> 4:398-415.</p>
2019	Ruzicka, F.* , Hill, M.S.*, Pennell, T.M.*, Flis, I., Ingleby, F.C., Mott, R., Fowler, K., Morrow, E.H., Reuter, M. (2019). Genome-wide sexually antagonistic variants reveal long-standing constraints on sexual dimorphism in fruit flies. <i>PLOS Biology</i> 17:e3000244.
2018	Connallon, T., Olito, C., Dutoit, L., Papoli, H., Ruzicka, F. , Yong, L. (2018). Local adaptation and the evolution of inversions on sex chromosomes and autosomes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> 373:20170423.
2017 and previous	<p>Reuter, M., Camus, M. F., Hill, M.S., Ruzicka, F., Fowler, K. (2017). Evolving plastic responses to external and genetic environments. <i>Trends in Genetics (Forum)</i> 33:169-170.</p> <p>Davies, T., Ruzicka, F., Lavery, T., Walters, C.L., Pettorelli, N. (2016). Ultrasonic monitoring to assess the impacts of forest conversion on Solomon Island bats. <i>Remote Sensing in Ecology and Conservation</i> 2:107-118.</p> <p>Andujar, C., Arribas, P., Ruzicka, F., Crampton-Platt, A., Timmermans, M.J.T.N., Vogler, A.P. (2015). Phylogenetic community ecology of soil biodiversity using mitochondrial metagenomics. <i>Molecular Ecology</i> 24:3603-3617.</p>
*Denotes co-first authorship	

PRIZES & AWARDS

2020	ECR Award , Australasian Evolution Society.
2018	<p>Runner-up, ECR Talk, the Genetics Society's Autumn Symposium 'Genotype to Phenotype to Fitness'</p> <p>Winner, Final Year Talk, UCL GEE Postgraduate Symposium.</p>
2017	Winner, Second Year Poster , UCL GEE Postgraduate Symposium.
2013	Darwin Prize for Best Student , UCL MRes.

FUNDING

2020	A\$1,000, ECR Award; the Australasian Evolution Society .
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2019	A\$5,000, for initiatives as ECR Theme Leader; Monash School of Biological Sciences . A\$10,000, ECR Career Development Award; Monash School of Biological Sciences .
2017	£800, to attend 26 th ESEB Congress and ESEB Special Topics Network; UCL Graduate School Fund .
2016	£3,000, CEE Summer Symposium organisation; Centre for Ecology & Evolution and the Genetics Society .
2015	CHF450, 'Evolutionary Biology in Guarda' Summer School; University of Basel . £7,500, Supporting funds for PhD research; NERC .
2014–18	£64,000, PhD Studentship; NERC London Doctoral Training Partnership.

NATIONAL & INTERNATIONAL TALKS

2023	56th Population Genetics Group (London, UK). Invited departmental talk, Lund University (Lund, Sweden). Invited departmental talk, ISTA (Vienna, Austria).
2021	Australasian Evolution Society (Melbourne, Australia).
2020	Invited plenary, Australasian Evolution Society (online).
2019	Australasian Evolution Society (Sydney, Australia). Genetics Society of Australasia (Melbourne, Australia). 52nd Population Genetics Group (Oxford, UK).
2018	The Genetics Society's Autumn Symposium 'Genotype to Phenotype to Fitness' (Exeter, UK). 51st Population Genetics Group (Bristol, UK).
2017	26th Congress of the European Society for Evolutionary Biology (Groningen, Netherlands).
2015	European Meeting of PhD Students in Evolutionary Biology (Stirling, UK).

ORGANISATION & LEADERSHIP

2022–23	Co-organiser, SMBE Everywhere Symposium "Genetics and Evolution of Sex Differences" (online)
2020–21	Co-organiser, School of Biological Sciences Seminar Series (Monash).
2019–21	ECR representative, School of Biological Sciences "Evolution Theme" (Monash).
2016	Co-organiser, Centre for Ecology & Evolution Summer Symposium (London): "War & Peace: The Dynamics of Evolutionary Conflict".
2016–18	Co-organiser, UCL GEE Friday Seminars for Young Researchers (London).

SUPERVISION & MENTORSHIP

2022	Bovingdon, N. (Honours, Monash)
2021	McDonough, Y. (Honours, Monash), Schmiedl, N. (Undergraduate, Monash)
2020	Cyza, J. (Undergraduate, Monash)
2019	Beasley, I.J. (Undergraduate, Monash)

2018	Davidson, O. (MRes, UCL).
2016	Pawar, H. (Undergraduate, UCL), Snaith, D. (Undergraduate, UCL), Houghton, M. (MRes, UCL).
2015	Bates, S. (Msci, UCL).

REVIEWING

2019–present	<p>Journals: <i>Nature Ecology and Evolution</i>, <i>PNAS</i>, <i>Molecular Biology and Evolution</i>, <i>The American Naturalist</i>, <i>Proceedings of the Royal Society B: Biological Sciences</i>, <i>Evolution Letters</i>, <i>Genetics</i>, <i>Evolution</i>, <i>Journal of Evolutionary Biology</i>, <i>Behavioural Ecology and Sociobiology</i>, <i>Heredity</i>.</p> <p>Fellowships: Human Frontiers Science Program, The Austrian Academy of Sciences.</p>
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TEACHING

2020–21	Co-coordinator, “Foundations of Evolutionary Biology” PhD course in population and quantitative genetics (Monash)
2019–21	Guest lecturer, Evolutionary & Ecological Genetics (Monash), Genomics & Population Genetics (Monash)
2020	Undergraduate tutor, Genomics & Population Genetics (Monash), Evolutionary & Ecological Genetics (Monash)
2015–18	Undergraduate tutor, Sex, Genes & Evolution (UCL), Computational Biology (UCL), Evolutionary Genetics (UCL).

TRAINING

2019–20	GENETICS Peer Review Training Programme (online).
2017–19	ESEB Special Topics Network “Linking local adaptation to the evolution of sex differences” (Montpellier, France; Lund, Sweden)
2015	Guarda Summer School (Guarda, Switzerland).

PUBLIC ENGAGEMENT

2020	<i>Evolution Letters</i> research blog.
2018	Scientific expert for ‘Agonism/Antagonism’ art exhibition at UCL Grant Museum of Zoology.
2016–17	<i>The Genetics Society</i> Summer newsletter.
2014–17	Tutor, “Generating Genius” programme for STEM secondary students from deprived backgrounds

REFEREES

Dr Tim Connallon	Lecturer, School of Biological Sciences (Monash University, Melbourne), tim.connallon@monash.edu
Prof. Max Reuter	Professor of Evolutionary Genetics, Dept. of Genetics, Evolution & Environment (UCL, London), m.reuter@ucl.ac.uk , +4420 3108 2210
Prof. Kevin Fowler	Professor of Evolutionary Biology, Dept. of Genetics, Evolution & Environment (UCL, London), k.fowler@ucl.ac.uk , +4420 3108 2279

