FILIP RUZICKA

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PROFESSIONAL EXPERIENCE

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| 25/02/2019 – present | **Research Fellow** with **Dr Tim Connallon** | *Monash University*  *Melbourne, Australia.* |

EDUCATION

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

PUBLICATIONS

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| 2022 | **Ruzicka, F.**, Holman, L., Connallon, T. (2022). Polygenic signals of sex differences in selection in humans from the UK Biobank. *PLOS Biology,* 20:e3001768*.*  **Ruzicka, F.**, Reuter, M. (2022). Evolutionary Genetics: Dissecting a sexually antagonistic polymorphism. *Current Biology (Dispatch),* 35:PR828-R830  Connallon, T., Beasley, I.J., McDonough, Y., **Ruzicka, F.** (2022)**.** How much does the unguarded X contribute to sex differences in lifespan? *Evolution Letters* 6:319–329*.*  **Ruzicka, F.**, Connallon, T. (2022). An unbiased test reveals no enrichment of sexually antagonistic polymorphisms on the human X chromosome. *Proceedings of the Royal Society B: Biological Sciences* 289:202123142 |
| 2021 | **Ruzicka, F.**, Connallon T., Reuter, M. (2021). Sex differences in deleterious mutational effects in *Drosophila Drosophila melanogaster*: combining quantitative and population genetic insights. *Genetics* 219:iyab143  Jardine, M., **Ruzicka, F.**, Diffley, C., Fowler, K., Reuter, M. (2021). A non-coding indel polymorphism in the *fruitless* gene of *Drosophila melanogaster* exhibits antagonistically pleiotropic effects. *Proceedings of the Royal Society B: Biological Sciences* 288:20202958. |
| 2020 | **Ruzicka, F.\***, Connallon, T.\* (2020). Is the X chromosome a hot spot for sexually antagonistic polymorphisms? Biases in current empirical tests of classical theory. *Proceedings of the Royal Society B: Biological Sciences* 287:20201869*.*  **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. *Evolution Letters* 4:398-415. |
| 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. *PLOS Biology* 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. *Philosophical Transactions of the Royal Society B: Biological Sciences* 373:20170423. |
| 2017 and previous | Reuter, M., Camus, M. F., Hill, M.S., **Ruzicka, F.**, Fowler, K. (2017). Evolving plastic responses to external and genetic environments. *Trends in Genetics (Forum)* 33:169-170.  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. *Remote Sensing in Ecology and Conservation* 2:107-118.  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. *Molecular Ecology* 24:3603-3617. |

\*Denotes co-first authorship

PRIZES & AWARDS

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

FUNDING

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| 2020 | A$1,000, ECR Award; the **Australasian Evolution Society**. |
| 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 26th 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

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| 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

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| 2022 | 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

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| 2022 | Bovingdon, N. (Honours, Monash) |
| 2021 | McDonough, Y. (Honours, Monash), Schmiedl, N. (Undergraduate, Monash) |
| 2020  2019 | Cyza, J. (Undergraduate, Monash)  Beasley, I.J. (Undergraduate, Monash) |
| 2018  2016 | Davidson, O. (MRes, UCL).  Pawar, H. (Undergraduate, UCL), Snaith, D. (Undergraduate, UCL)  Houghton, M. (MRes, UCL). |
| 2015 | Bates, S. (Msci, UCL). |

REVIEWING

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

TEACHING

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| 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

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| 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

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| 2020 | *Evolution Letters* research blog. |
| 2018 | Scientific expert for ‘Agonism/Antagonism’ art exhibition at UCL Grant Museum of Zoology. |
| 2016–17 | *The Genetics Society* Summer newsletter. |
| 2014–15 | Tutor, “Generating Genius” programme for STEM secondary students |

REFEREES

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