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Education and career

- 2016 - 2019: BBSRC Future Leader Fellow ‘The genomics of thermal adaptation in a model pest insect’ Biological Sciences, University of East Anglia
- 2015 - 2016: EGI research fellow ‘Avian behaviour, ecology and evolution’ Edward Grey Institute, University of Oxford
- 2012 - 2014: NWO Rubicon research fellow ‘Genomic approaches to conserving genetic diversity in translocated populations’ Behavioural Ecology and Self-organization, University of Groningen
- 2008 - 2012: PhD ‘Adaptation and differentiation in wild bird populations’ Biological Sciences, University of East Anglia
- 2005 - 2008: BSc (Hons) Ecology (First Class) Biological Sciences, University of East Anglia

Awards and prizes

- 2013 The Christer Hemborg Lecture, Uppsala University (biannual award and lecture given by a young evolutionary biologist)
- 2012 ‘Company of Biologists Award’ for best PhD thesis University of East Anglia
- 2010 Most cited paper of 2010, Proceedings of the Royal Society B
- 2008 ‘Michael Graham Prize’ for best performance in an Ecology degree, University of East Anglia

Research grants

- 2016 NRP Science links seed corn funding ‘RNAi and pest control: an experimental investigation into the evolution of resistance and effects on non- target species’ (£14,931)
- 2016 BBSRC Future Leader Fellowship ‘The genomics of thermal adaptation in a model pest insect’ (£299,075)
- 2015 Edward Grey Institute Research Fellowship ‘The genomics of adaptation in wild birds and laboratory beetles’ (~£80,000)
- 2014 British Ecological Society large research grant ‘Genomic consequences of selection, drift and founder effects in island pipit populations’ (£15,300)
- 2012 Netherlands Organisation for Scientific Research (NWO) Rubicon fellowship ‘Genomic approaches to conserving genetic diversity in translocated populations’ (£78,000)

Peer-reviewed publications

Published and accepted manuscripts

23. **Spurgin, L.G.**, Bebbington, K. Fairfield, E.A., Hammers, M., Komdeur, J., Burke, T., Dugdale, H.L., Richardson, D.S. (2017) Spatio-temporal variation in lifelong telomere dynamics in a long-term ecological study. *Journal of Animal Ecology*, In Press

22. Bebbington, K., Fairfield, E.A., **Spurgin, L.G.**, Kingma, S.A., Dugdale, H., Komdeur, J., Richardson, D.S. (2017) Joint care can outweigh costs of non-kin competition in communal breeders. *Behavioural Ecology*, In Press
21. McDonald, G.C., **Spurgin, L.G.**, Fairfield, E.A., Richardson, D.S., Pizzari, T. (2017) Pre- and post-copulatory sexual selection favour aggressive, young males in polyandrous groups of red junglefowl. *Evolution*, 71, 1653-1669
20. Bebbington, K., Kingma, S.A., Fairfield, E.A., **Spurgin, L.G.**, Komdeur, J., Richardson, D.S. (2016) Consequences of sibling rivalry vary across life in a passerine bird. *Behavioural Ecology*, 28, 407-418
19. Gonzalez-Quevedo, C., Davies R.G., Phillips, K.P., **Spurgin, L.G.**, Richardson, D.S. (2016) Landscape scale variation in an anthropogenic factor shapes immune gene variation within a wild population. *Molecular Ecology*, 25, 4234-4246
18. Bebbington, K., **Spurgin, L.G.**, Fairfield, E.A., Dugdale, H., Komdeur, J., Burke, T., Richardson, D.S. (2016) Telomere length reveals cumulative individual and transgenerational inbreeding effects in a passerine bird. *Molecular Ecology*, 25, 2949-2960
17. Illera, J.C., **Spurgin, L.G.**, Rodriguez-Exposito, E., Nogales, M., Rando, J.C. (2016) What are we learning about speciation and extinction from the Canary Islands? *Ardeola*, 63, 5-23
16. Gonzalez-Quevedo, C., **Spurgin, L.G.**, Illera, J.C., Richardson, D.S. (2015) Drift, not selection, shapes toll-like receptor variation among oceanic island populations. *Molecular Ecology*, 24, 5852-5863
15. Hammers, M. Kingma, S.A., Bebbington, K. van de Crommenacker, J., **Spurgin, L.G.**, Richardson, D.S., Burke, T. Hugdale, H.L., Komdeur, J. (2015) Senescence in the wild: insights from a long-term study on Seychelles warblers. *Experimental Gerontology*, 71, 69-79
14. Lumley, A.J., Michalczyk, L., Kitson, J.J.N., **Spurgin, L.G.**, Morrison, C.A., Godwin, J.L., Dickinson, M.E., Martin, O.Y., Emerson, B.C., Chapman T.C., Gage, M.J.G. (2015) Sexual selection protects against extinction. *Nature*, 522, 470-473
13. Gonzalez-Quevedo, C., Phillips, K.P., **Spurgin, L.G.**, Richardson, D.S. (2015) 454 screening of individual MHC variation in an endemic island passerine. *Immunogenetics*, 67, 149-162
12. Padilla, D.P.*, **Spurgin, L.G.***, Fairfield, E., Illera, J.C., Richardson, D.S. (2015) Population history, gene flow and bottlenecks in island populations of a secondary seed disperser, the southern grey shrike (*Lanius meridionalis koenigi*). *Ecology and Evolution*, 5, 36-45 (*joint first authors)
11. **Spurgin, L.G.**, Wright, D.J., van der Velde, M., Collar, N.J., Komdeur, J., Burke, T.A., Richardson, D.S. (2014) Museum DNA reveals the demographic history of the endangered Seychelles warbler. *Evolutionary Applications*, 7, 1134-1143
10. Wright, D.J., **Spurgin, L.G.**, Collar, N.J., Komdeur, J., Burke, T.A., Richardson, D.S. (2014) The impact of translocations on neutral and functional genetic diversity within and among populations of the Seychelles warbler. *Molecular Ecology*, 23, 2165-2177
9. **Spurgin, L.G.**, Illera, J.C., Dawson, D.A., Jorgensen, T.H., Richardson, D.S. (2014) Genetic and phenotypic divergence in an island pipit: isolation by distance, by colonisation or by adaptation? *Molecular Ecology*, 23, 1028-1039
8. **Spurgin, L.G.** (2013) Does promiscuity explain differences in levels of genetic diversity across passerine birds? *Evolution*, 67, 3071-3072
7. Dawson, D.A., Ball, A.D., **Spurgin, L.G.**, Martin-Galvez, D., Stewart, I.R.K., Horsburgh, G.J., Potter, J.D., Molina-Morales, M., Bicknell, A.W.J., Hodges, S., Ekblom, R., Slate, J., Burke, T.A. (2013) High-utility conserved avian microsatellite markers enable parentage and population studies across a wide range of species. *BMC Genomics*, 14, 176

6. **Spurgin, L.G.**, Illera, J.C., Padilla, D.P., Richardson, D.S. (2012) Biogeographic patterns and co-occurrence of pathogenic infection across island populations of Berthelot's pipit (*Anthus berthelotii*). *Oecologia*, 168, 691-701
5. Dawson, D.A., Horsburgh, G.J., Krupa, A.P., Stewart, I.R.K., Skjelseth, S., Jensen, H., Ball, A.D., **Spurgin, L.G.**, Burke, T.A. (2012) A predicted microsatellite map of the house sparrow *Molecular Ecology Resources*, 12, 501-523
4. **Spurgin, L.G.**, van Oosterhout, C., Illera, J.C., Bridgett, S., Gharbi, K., Emerson, B.C., Richardson, D.S. (2011) Gene conversion rapidly generates MHC diversity in recently founded bird populations. *Molecular Ecology*, 20, 5213-5225
3. **Spurgin, L.G.**, Richardson, D.S. (2010) How pathogens drive genetic diversity: MHC, mechanisms and misunderstandings. *Proceedings of the Royal Society B, Biological Sciences*, 277, 979-988
2. Worley K., Collet J., **Spurgin, L.G.**, Cornwallis C., Pizzari T., Richardson D.S. (2010) MHC heterozygosity and survival in red junglefowl. *Molecular Ecology*, 19, 3064-3075
1. Dawson, D.A., Horsburgh, G.J., Kupper, C., Stewart, I.R.K., Ball, A.D., Durrant, K.L., Hansson, B., Bacon, I., Bird, S., Klein, A., Krupa, A.P., Lee, J.W., Martin-Galvez, D., Simeoni, M., Smith, G., **Spurgin, L.G.**, Burke, T.A. (2010) New methods to identify conserved microsatellite loci and develop primer sets of high cross-species utility as demonstrated for birds. *Molecular Ecology Resources*, 10, 475-494

Submitted manuscripts

5. Bosse, M*, **Spurgin, L.G.***, Laine, V.N., Cole, E.F., Firth, J.A., Gienapp, P., Gosler, A.G., McMahon, K., Poissant, J., Verhagen, I., Groenen, M.A.M., van Oers, K., Sheldon, B.C., Visser, M.E., Slate, J. Recent natural selection causes adaptive evolution of an avian polygenic trait (*joint first authors)
4. Armstrong, C., Richardson, D.S., Hipperson, H., Horsburgh, G.J., Kupper, C., Percival-Alwyn, L., Clark, M., Burke, T., **Spurgin, L.G.** Genomic associations with bill length and disease reveal adaptation across island bird populations
3. Tan, C.K.W., Doyle, P., Burrell, S., Bagshaw, E., Wigby, S., Fairfield, E.A., **Spurgin, L.G.**, Richardson, D.S., Pizzari, T. Dissecting the influence of inbreeding, parental age and post-insemination sperm age on fitness-related traits in a bird population
2. Bebbington, K., Kingma, S.A., Fairfield, S.A., Dugdale, H.L., Komdeur, J., **Spurgin, L.G.**, Richardson, D.S. Kinship and familiarity mitigate costs of social conflict between Seychelles warbler neighbors
1. Curson, A.R.J., Williams, B.T., Pinchbeck, B.J., Sims, L.P., Martínez, A.B., Rivera, P.P.L., Kumaresan, D., Mercadé, E., **Spurgin, L.G.**, Carrión, O., Moxon, S., Cattolico, R., Todd, J.D. DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton

Invited seminars

- 2016 'The great tit HapMap project: population structure and adaptation in a model passerine' Adam Mickiewicz University, Poland
- 2014 'Altruism, infidelity and telomeres' Diversity in Telomere Dynamics Workshop, Drymen, Scotland
- 2013 'Adaptation and differentiation in island pipit populations' Aarhus University, Denmark
- 2013 'Museum DNA and the conservation of endangered species' Natural History Museum, London
- 2011 'Gene conversion, natural selection and MHC diversity in Berthelot's pipit' Island Ecology and Evolution Research Group, Tenerife, Spain

Reviewing

- Peer review college member, British Ecological Society (2015-present)
- Grant reviewer for BBSRC (UK), Leverhulme Trust (UK), Ontario Research Fund (Canada), Marsden Fund (New Zealand), Czech Science Foundation (Czech Republic)
- Reviewer of ca 20 articles per year, including the following journals: Nature Communications, Proceedings of the Royal Society B, Evolution, Molecular Ecology, Molecular Biology and Evolution, Heredity, Journal of Evolutionary Biology, Biology Letters, BMC Evolutionary Biology, Journal of Biogeography, PLoS One, Evolutionary Applications, Behavioural Ecology and Sociobiology, Biological Conservation, Ecology and Evolution, Conservation Genetics, Immunogenetics, Journal of Avian Biology

PhD supervision

- 2017-2021: Martin, C. Genomic signatures of adaptation in an island bird (PhD, University of East Anglia, primary supervisor)
- 2016-2019: Lewis, R. Population demography and thermal adaptation in a model pest insect (PhD, University of East Anglia, primary supervisor)
- 2014-2018: Armstrong, C. Evolving with pathogens: how pathogens drive genetic diversity over space and time in an island bird (PhD, University of East Anglia, secondary supervisor)
- 2013-2017: Bebbington, K. Telomere dynamics in the Seychelles warbler (PhD, University of East Anglia, secondary supervisor)
- 2010-2014: Gonzalez-Quevedo, C. The scale of pathogen-mediated selection: a case study on Berthelot's pipit on Tenerife (PhD, University of East Anglia, secondary supervisor)
- 2010-2014: Wright, D.J. Evolutionary and conservation genetics in the Seychelles warbler - MHC diversity (PhD, University of East Anglia, supervisory team member)

Teaching

- 2016-2018: MA in Higher Education Practise, University of East Anglia.
- 2017-: Invited instructor 'Introductory population genomics' – Physalia Courses, Berlin
- 2016-: Data Carpentry and Software Carpentry instructor
- 2008-: Lectures, seminars, lab sessions given in following modules: Field Ecology, Behavioural Ecology, Evolutionary Biology, Biodiversity, Conservation Genetics, Host-Pathogen Coevolution, Population and Community Ecology, Environmental Biology

Professional membership

British Ecological Society, European Society for Evolutionary Biology, Genetics Society, Society for Molecular Biology and Evolution

Popular science articles

- Spurgin, L.G. (2013) The role of chance in evolution. Aeon Magazine (online only – link [here](#))
- Spurgin, L.G. (2013) Science and the English Language – lessons from George Orwell. London School of Economics Impact of Social Sciences Blog (online only – link [here](#))