Dr Nicholas J Clark

Lecturer - University of Queensland, School of Veterinary Science
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Homepage - Github - Google Scholar - ResearchGate

Career Summary

Flexible and engaging molecular disease ecologist with experience studying the geographical and biotic determinants of pathogen transmission. Interested in developing computational phylogenetic tools and adapting techniques from statistical network theory to study how pathogens interact with their hosts across urbanisation gradients.

Transferable Skills

- Strong communication skills: 34 publications in peer-reviewed journals; six international presentations
- Broad teaching experience: coordinated three undergraduate genetics courses
- Extensive experience in bioinformatics: maintain two `R` packages for molecular genetics and ecology research
- Aptitude for leadership: trained six postgraduate students in bioinformatics and statistical techniques
- Proven ability to obtain funding: $247000 external funding from domestic and international organisations
- Industry networking experience: helped secure data-sharing partnerships and develop joint proposals with three industry partners and one Australian government partner
- Proficient programming with: `R`, `html`, `MATLAB`, `Markdown`, `git`

Qualifications

PhD
Griffith University (Supervisors: Dr Sonya Clegg, Dr Robert Adlard, Prof. Hamish McCallum)
Thesis: *The distribution and diversity of avian malaria parasites in Australian and Southern Melanesian birds*

- Led field expeditions in diverse habitats on four islands in New Caledonia and across two Australian states
- Acquired extensive experience programming epidemiological analyses for multistructure datasets using both frequentist and Bayesian techniques
- Published ten peer-reviewed papers over four years, including six published chapters by submission of the thesis

GDipResMeth
James Cook University (Supervisors: Prof Garry Russ, Dr Lynne van Herwerden) Thesis: *Connectivity of butterflyfishes: pairing molecular methods and field observations*

- Lead volunteer divers on two field trips to conduct marine abundance and habitat complexity surveys
- Developed laboratory skills to conduct high-throughput genetic analyses
- Obtained a high distinction in a Sampling and Experimental Design course and developed key programming skills to build hierarchical models

BSc (honours)
University of North Carolina at Wilmington; North Carolina, USA

- Dean's list for academic achievement in all semesters (GPA 4.0/4.0)

Professional Experience

Lecturer (08/2019 - Present)
University of Queensland, School of Veterinary Science (Adviser: Prof Nigel Perkins)

- Supervising three RhD and two undergraduate students in disease ecology and quantitative genetics
- Coordinating a second-year animal genetics course for BVetSci students
- Leading a UQ Early Career Resarch Grant funded project on the use of machine learning genetic algorithms to forecast paraysis tick infestation risk

Postdoctoral Fellow / Lecturer (7/2016 - 07/2019)
University of Queensland, School of Veterinary Science (Adviser: A/Prof Ricardo Soares Magalhães)

- Led a National Geographic funded project on the spread of parasites at the human-wildlife interface
- Coordinated three UQ undergraduate genetics courses
- Developed novel network tools to study biotic interactions and their influences on infection risk

Research Assistant (1/2016 - 7/16)
University of Queensland, School of Veterinary Science (Adviser: Dr Steven Kopp)

- Conducted molecular research into population genetics of soil-transmitted helminth parasites
- Established protocols to develop next generation sequencing tools for cat fleas

Teaching Contributions

2017

University of Queensland, Gatton Campus: Ecological and Disease Genetics (Course Coordinator)
Undergraduate (3rd year Science), semester 1

- Planned learning objectives; wrote the electronic course profile (ECP) and all assignments
- Delivered flexible, interactive lectures and tutorials that were well-received by students
- Achieved overwhelmingly positive feedback on student evaluations, including scores of 'Outstanding' for teacher ratings (SECaTs attached)

University of Queensland, Gatton Campus: Animal Breeding and Genetics (Course Coordinator)
Undergraduate (Bachelor of Veterinary Medicine), semester 2

- Planned learning objectives; contributed to preparation of assignments and end of semester exam
- Independently lead theory-based genetics tutorials
- Nominated for a 'Golden Speculum' Best Lecturer award for 2017

2016 - 17

University of Queensland, Gatton Campus: Molecular and Quantitative Plant Genetics; Molecular and Quantitative Animal Genetics (Lead tutor)
Undergraduate (2nd year Science and 2nd year Agriculture), semester 2

- Independently lead laboratory and theory tutorials
- Marked assignments and liaised with course coordinators to enhance curriculums

2015 - 17

University of Queensland, Gatton Campus: Animal Breeding and Molecular Genetics; Animal Pathogens and Immunity; Principles of Disease (Assistant tutor)
Undergraduate (2nd year Veterinary Science), semesters 1 and 2

- Collaborated with fellow tutors to lead laboratory and theory tutorials
- Marked assignments

Education

PhD
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GDipResMeth
James Cook University (Supervisors: Prof Garry Russ, Dr Lynne van Herwerden) Thesis: *Connectivity of butterflyfishes: pairing molecular methods and field observations*

- Lead volunteer divers on two field trips to conduct marine abundance and habitat complexity surveys
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University of North Carolina at Wilmington; North Carolina, USA

- Dean's list for academic achievement in all semesters (GPA 4.0/4.0)

Publications in Review

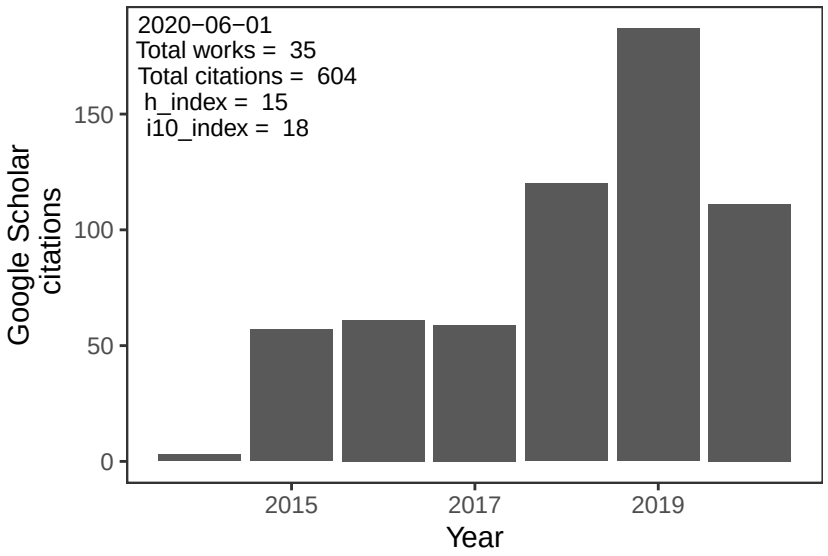
Clark, NJ, Kerry, JT, and Fraser, CI. Rapid winter warming will disproportionately disrupt marine fish community structure (3rd submission 15/05/20)

Abeykoon, H, **Clark, NJ**, Vincent, GA, Stevenson, M, Firestone, SM, and Wietholter, A. *Coxiella burnetii* in the environment: a systematic review and critical appraisal of sampling methods (1st submission 09/12/19)

McGowan, A, Lanyon, J, **Clark, NJ**, Blair, D, Marsh, H, Wolanski, E, and Seddon, J. Seascape genetics of a mobile marine mammal: evidence of an abrupt break in dugong (*Dugong dugon*, Müller) gene flow along Australia's eastern Queensland coast (2nd submission 18/01/20)

Clark, NJ, Drovetski, SV and Voelker, G. Avian malaria in the changing climate: denser vegetation and warmer winters increase parasite infection risk in Western Palearctic birds. (1st submission 08/04/19)

Citations



Full Publication List

2020

[34] Mone, NK, **Clark, NJ**, Kyaw-Tanner, M, Turni, C, Barnes, TS, Parke, CR, Alawneh, JA, Blackall, PJ, and Meers, J. Genetic analysis of porcine circovirus type 2 (PCV2) in Queensland, Australia. *Australian Veterinary Journal* DOI: https://doi.org/10.1111/avj.12952 (IF: 0.887)

[33] **Clark, NJ**, Tozer, S, Wood, C, Firestone, SM, Stevenson, M, Caraguel, C, Chaber, AL, Heller, J, and Soares Magalhães, RJ. Unravelling animal exposure profiles of human Q fever cases in Queensland, Australia using natural language processing. *Transboundary and Emerging Diseases* DOI: https://doi.org/10.1111/tbed.13565 (IF: 3.470)

[32] **Clark, NJ**, Owada, K, Ruberanziza, E, Ortu, G, Umulisa, I, Bayisenge, U, Mbonigaba, JB, Mucaca, JB, Lancaster, W, Fenwick, A, Soares Magalhães, RJ, and Mbituyumuremyi, A. Parasite associations predict infection risk: incorporating co-infections in predictive models for neglected tropical diseases. *Parasites & Vectors* DOI: 10.1186/s13071-020-04016-2. (IF: 3.035)

2019

[31] Fountain-Jones, NM, **Clark, NJ**, Kinsley, AC, Carstensen, M, Johnson, TJ, Forester, J, Miller, E, Moore, S, Wolf, TM and Craft, ME. Microbial associations and spatial proximity predict North American moose (*Alces alces*) gastrointestinal community composition. *Journal of Animal Ecology* DOI: https://doi.org/10.1111/1365-2656.13154. (IF: 4.474)

[30] Peel, AJ, Wells, K, Giles, J, Boyd, V, Burroughs, A, Edson, D, Crameri, G, Baker, ML, Field, H, Wang, LF, McCallum, H, Plowright, RK and **Clark, NJ**. Synchronous shedding of multiple bat paramyxoviruses coincides with peak periods of Hendra virus spillover. *Emerging Microbes & Infections* 8:1314-1323. (IF: 6.212)

[29] Fecchio, A, Bell, JA, Bosholn, M, Vaughan, JA, Tkach, VV, Lutz, HL, Cueto, VR, Gorosito, CA, González-Acuña, D, Stromlund, C, Kvasager, D, Comiche, KJM, Kirchgatter, K, Pinho, JB, Berv, J, Anciães, M, Fontana, CS, Zyskowski, K, Sampaio, S, Dispoto, JH, Galen, SC, Weckstein, JD, and **Clark, NJ**. An inverse latitudinal gradient in infection probability and phylogenetic diversity for *Leucocytozoon* blood parasites in New World birds. *Journal of Animal Ecology* DOI: 10.1111/1365-2656.13117. (IF: 4.474)

[28] **Clark, NJ**, Umulisa, I, Ruberanziza, E, Owada, K, Colley, DG, Ortu, G, Campbell, CH, Emmanuel, R, Lancaster, W, Mbonigaba, JB, Mbituyumuremyi, A, Fenwick, A, Soares Magalhães, RJ and Turate, I. Mapping *Schistosoma mansoni* endemicity in Rwanda: a critical assessment of geographical disparities arising from Circulating Cathodic Antigen versus Kato-Katz diagnostics. *PLoS Neglected Tropical Diseases* DOI: https://doi.org/10.1371/journal.pntd.0007723 (IF: 4.487)

[27] Ruberanziza, E, Owada, K, **Clark, NJ**, Umulisa, I, Ortu, G, Lancaster, W, Munyaneza, T, Mbituyumuremyi, A, Bayisenge, U, Fenwick, A, Soares Magalhães, RJ. Mapping soil-transmitted helminth parasite infection in Rwanda: estimating endemicity and identifying at-risk populations. *Tropical Medicine and Infectious Disease* DOI: 10.3390/tropicalmed4020093

[26] Proboste, T, Corvalan, P, **Clark, NJ**, Beyer, HL, Goldizen, AW and Seddon, JM. Commensal bacterial sharing is not predicted by host social association in kangaroos: implications for disease transmission networks. *Journal of Animal Ecology* DOI: https://doi.org/10.1111/1365-2656.13064 (IF: 4.474)

[25] Wells, K, and **Clark, NJ**. Host specificity in variable environments. *Trends in Parasitology* DOI: 10.1016/j.pt.2019.04.001 (IF: 7.929) UQ media release

[24] Lawrence, AL, Webb, CE, **Clark, NJ**, Halajian, A, Mihalca, A, Miret, J, D'Amico, G, Brown, G, Kumsa, B, Modry, D, and Šlapeta, J. Out-of-Africa origins and global climatic distribution of the common cat flea, *Ctenocephalides felis*: the hitchhiker's guide to world domination. *International Journal for Parasitology* DOI: 10.1016/j.ijpara.2019.01.001 (IF: 3.730) *The Conversation*

[23] Fecchio, A, Wells, K, Bell, JA, Tkach, VV, Lutz, HL, Weckstein, JD, Clegg, SM, and **Clark, NJ**. Climate variation influences host specificity in avian malaria parasites. *Ecology Letters* 22 547-557 (IF: 9.137)

2018

[22] Wells, K, Gibson, D, and **Clark, NJ**. Global patterns in helminth host specificity: phylogenetic and functional diversity of regional host species pools matter. *Ecography* DOI: 10.1111/ecog.03886 (IF: 4.520) UQ media release

[21] **Clark, NJ** and Soares Magalhães, RJ. Airborne geographical dispersal of Q Fever from livestock holdings to human communities: a systematic review and critical appraisal of evidence. *BMC Infectious Diseases* DOI: 10.1186/s12879-018-3135-4 (IF: 2.678)

[20] **Clark, NJ**, Wells, K, Lindberg, O. MRFcov: Markov Random Fields with additional covariates. `R` package version 1.0, https://github.com/nicholasjclark/MRFcov

[19] **Clark, NJ**, Wells, K, and Lindberg, O. Unravelling changing interspecific interactions across environmental gradients using Markov random fields. *Ecology* DOI: 10.1002/ecy.2221 (IF: 4.809) UQ media release

[18] **Clark, NJ**. Phylogenetic uniqueness, not latitude, explains the diversity of avian blood parasite communities worldwide. *Global Ecology and Biogeography* DOI: 10.1111/geb.12741 (IF: 6.045)

[17] Wells, L, Gibson, DI, **Clark, NJ**, Ribas, A, Morand, S, McCallum, H. Global spread of helminth parasites at the human – domestic animal – wildlife interface. *Global Change Biology* DOI: 10.1111/gcb.14064 (IF: 8.502)

[16] **Clark, NJ**, Seddon, JM, Kyaw-Tanner, M, Al-Alawneh, J, Harper, G, McDonagh, P, and Meers, J. Emergence of canine parvovirus subtype 2b (CPV-2b) infections in Australian dogs. *Infection, Genetics and Evolution* DOI: 10.1016/j.meegid.2017.12.013 (IF: 2.885) UQ media release

[15] **Clark, NJ**, Seddon, JM, Šlapeta, J, and Wells, K. Parasite spread at the domestic animal - wildlife interface: anthropogenic habitat use, phylogeny and body mass drive risk of cat and dog flea (*Ctenocephalides* spp.) infestation in wild mammals. *Parasites & Vectors* 11:8 (IF: 3.035) UQ media release

2017

[14] **Clark, NJ**, Clegg, SM, Sam, K, Goulding, W, Koane, B and Wells, K. Climate, host phylogeny and the connectivity of host communities govern regional parasite assembly. *Diversity and Distributions* DOI: 10.1111/ddi.12661 (IF: 4.391)

[13] **Clark, NJ** and Clegg, SM. Integrating phylogenetic and ecological distances reveals new insights into parasite host specificity. *Molecular Ecology* 26(11), 3074-3086 (IF: 6.086)

[12] McKee, J, **Clark, NJ**, Shapter, F and Simmons, G. A new look at the origins of Gibbon Ape Leukemia Virus. *Virus Genes* 53(2), 165-172 (IF: 1.431)

2016

[11] **Clark, NJ**, Wells, K, Dimitrov, D and Clegg, SM. Co-infections and environmental conditions drive the distributions of blood parasites in wild birds. *Journal of Animal Ecology* 85(6), 1461-1470 (IF: 4.474)

[10] Aharon-Rotman, Y, Buchanan, KL, **Clark, NJ**, Klaassen, M and Buttemer, WA. Why fly the extra mile? Using stress biomarkers to assess wintering habitat quality in migratory shorebirds. *Oecologia* 182(2), 385-395 (IF: 3.130)

[9] Goulding, W, Adlard, RD, Clegg, SM and **Clark, NJ**. Molecular and morphological description of *Haemoproteus* (*Parahaemoproteus*) *bukaka* (species nova), a haemosporidian associated with the strictly Australo-Papuan host Subfamily Cracticinae. *Parasitology Research* 115, 3387-3400 (IF: 2.329)

[8] **Clark, NJ**, Clegg, SM and Klaassen, M. Migration strategy and pathogen risk: non-breeding distribution drives malaria prevalence in migratory waders. *Oikos* 125(9), 1358-1368 (IF: 4.030)

2015

[7] **Clark, NJ**, Ishtiaq, F, Olsson-Pons, S and Clegg, SM. Specialist enemies, generalist weapons and the potential spread of exotic pathogens: malaria parasites in a highly invasive bird. *International Journal for Parasitology* 45(14), 891-899 (IF: 3.730)

[6] Olsson-Pons, S, **Clark, NJ**, Ishtiaq, F and Clegg, SM. Differences in host species relationships and biogeographical influences produce contrasting patterns of prevalence, community composition and genetic structure in two genera of avian malaria parasites in southern Melanesia. *Journal of Animal Ecology* 84(4), 985-998 (IF: 4.474)

[5] **Clark, NJ**, Adlard, RD and Clegg, SM. Molecular and morphological characterization of *Haemoproteus* (*Parahaemoproteus*) *ptilotis*, a parasite infecting Australian honeyeaters (Meliphagidae), with remarks on prevalence and potential cryptic speciation. *Parasitology Research* 114(5), 1921-1928 (IF: 2.329)

[4] **Clark, NJ** and Clegg, SM. The influence of vagrant hosts and weather patterns on the colonisation and persistence of blood parasites in an island bird. *Journal of Biogeography* 42(4), 641-651 (IF: 4.248)

2014

[3] **Clark, NJ**, Adlard, RD and Clegg, SM. First evidence of avian malaria in Capricorn Silvereyes (*Zosterops lateralis chlorocephalus*) on Heron Island. *The Sunbird* 44, 1-11

[2] **Clark, NJ**, Clegg, SM and Lima, MR. A review of global diversity in avian haemosporidians (Plasmodium and Haemoproteus: Haemosporida): new insights from molecular data. *International Journal for Parasitology* 44(5), 329-338 (IF: 3.730)

2012

[1] **Clark, NJ** and Russ, GR. Ontogenetic shifts in the habitat associations of butterflyfishes (F. Chaetodontidae). *Environmental Biology of Fishes* 94, 579-590 (IF: 1.307)

Service and Discipline Involvement

Service

- Contributing member of UQ School of Veterinary Science Research Committee
- Contributing member of UQ's Faculty of Science Equity, Diversity and Inclusion Committee
- Served as panel member to mark three UQ RhD theses
- Participated in teaching and assignment design for four undergraduate courses at UQ
- Currently supervising three RhD students and one Honours student
- Student volunteer for the 2017 Australian Society for Parasitology International Conference

Journal Referee

German Centre for Integrative Biodiversity Research (iDiv), *Molecular Ecology*, *Evolutionary Applications*, *Molecular Biology and Evolution*, *Infection, Genetics and Evolution*, *Malaria Journal*, *Ecology Letters*, *Parasites & Vectors*, *International Journal for Parasitology*, *Proceedings of the Royal Society B*, *BMC Infectious Diseases*, *Parasitology*, *Tropical Medicine and Infectious Disease*, *BMC Veterinary Research*

Funding Support

2019

$AU10,178: John and Mary Kibble Trust (co-authored the proposal). Deep sequencing of ß-tubulin genes to screen for possible drug resistance mechanisms in canine hookworms infecting Australian dogs

$AU35,090: UQ Early Career Researcher Grant (authored the proposal). *TickAlert*: development of an integrated early warning surveillance platform for tick paralysis

2018
$US150,000: World Health Organization (co-authored the proposal). Mapping the emergence, spread and transmission pathways of ESBL-producing *E. coli*

2017

$US18,400: National Geographic Scientific Research Grant (co-authored the proposal). Tracing the spillover of fleas and paralysis ticks between wildlife and domestic pets in Australia

2015

$AU4,975: Birds Queensland Research Award (co-authored the proposal). The role of invasive birds as carriers of exotic pathogens; implications for co-occurring native birds

$AU3,125: BirdLife Australia Stuart Leslie Bird Research Award (authored the proposal). Enemy release or novel weapons: malaria's role in the spread of the invasive Indian Myna

2014

$AU2,000: Griffith University Environmental fund for impactful publications

2013

$US20,250: National Geographic Scientific Research Grant (co-authored the proposal). Avian malaria in southern Melanesian birds

2012

$AU3,750: BirdLife Australia Stuart Leslie Bird Research Award (authored the proposal). Avian malaria lineage distribution, diversity and host specificity in southeast Queensland

$AU5,000: Birds Queensland Research Award (authored the proposal). The prevalence, distribution and diversity of avian malaria parasites in southeast Queensland

$AU78,000: Griffith University International Postgraduate Research Award

Mentoring And Research Training

2019 - present

Supervising UQ Masters student (S. Gericke), developing a molecular toolkit to study the population genomics of cat fleas

2018 - present

Supervising UQ Honours student (T. Nguyen), studying population genetics and spatial epidemiology of zoonotic helminths in domestic dogs

2017 - present

Co-supervising UQ PhD student (A. McGowan), studying seascape genomics of dugongs

2016 - present

Co-supervising UQ PhD student (T. Proboste), studying population genomics and host-parasite interactions in paralysis ticks

Presentations and Societal Impacts

2019
Authored media article: Australia's drought could be increasing Q fever risk, but there are ways we can protect ourselves *The Conversation*
Authored media article: Towards pre-empting global disease spread *The Conversation*
Oral presentation: *Ecology and Evolutionary Biology* seminar series, Texax A&M University, College Station, USA

2018

Authored media article: Our dogs and cats are spreading fleas around the world (and to us) *The Conversation*
Oral presentation: Ecological Society of Australia Conference, Brisbane, Australia
Oral presentation: Ministerio de Salud de Chile (MINSAL) Q Fever Delegation, Gatton, Australia

2017

Oral presentation: Australian Society for Parasitology Conference, Leura, Australia

2016

Research used to frame a Question Without Notice in NSW Parliament

Oral presentation: Griffith University Wildlife Disease Ecology Group, Brisbane, Australia

2015

Interviewed on ABC Radio National and ABC Radio Gold Coast regarding research on exotic malaria strains spread by invasive birds

Interviewed for feature stories in the Australian Society for Parasitology quarterly newsletter and in Australian Birdlife regarding research on avian malaria in Australian birds

Oral presentation: University of Queensland ARC Cavity Nesting Group, Brisbane, Australia

Oral presentation: Evolutionary Ecology of Infectious Diseases Conference, Athens, USA

Oral presentation: Griffith University Wildlife Disease Ecology Group, Brisbane, Australia

Poster presentation: Wildlife Disease Association Conference, Sunshine Coast, Australia

2014

Oral presentation: Queensland Ornithological Society, Brisbane, Australia

Oral presentation: Australian Society for Parasitology Concepts in Parasitology Workshop, Canberra, Australia.

Taught diagnostic techniques to students in a Parasitology High School Outreach Program at Ulladulla High School, Ulladulla, NSW, Australia

2013

Oral presentation: Centre for Integrative Ecology, Deakin University, Geelong, Australia

Poster presentation: Malaria and Related Haemosporidians of Wildlife International Conference, Vilnius, Lithuania

2012

Oral presentation: Malaria RCN Student Workshop, Virginia, USA

Honours and Awards

2019

Sponsored to deliver guest seminar for Texax A&M University's *Ecology and Evolutionary Biology* seminar series

2018

Invited to act as guest editor for a *Tropical Medicine and Infectious Disease* Special Issue on disease patterns in a changing environment

2017

Invited to act as co-chair for a Wildlife Parasitology session at the Australian Society for Parasitology Conference, Leura, Australia

2016

Research article featured on the cover and on the Editor's Choice list at International Journal for Parasitology

2015

1st place oral presentation; Griffith University School of Environment Student Symposium

2014

Accepted for competitive placement with travel funds; Australian Society for Parasitology Concepts in Parasitology Workshop, Canberra, Australia

2012

Accepted for competitive placement with travel funds; Malaria RCN Student Workshop, Virginia, USA

Relative to Opportunity

I completed my undergraduate degree (Bachelor of Science; GPA 4.0) in 2009 and a Graduate Diploma by Research Methods in 2011 (High Distinction average). I began my PhD in February 2012 and finished in April 2016, delivering a thesis with six published chapters and two published appendices. This work provided new insights into mechanisms driving the distributions of malaria parasites in birds. I gained a solid background in molecular epidemiology and phylogenomics, two fields that sit at the nexus of zoonotic disease research.

Following my PhD I have devoted much of my postdoctoral work to coordinating, teaching and mentoring students. This has provided me with a set of leadership and organizational skills that is unique among my peers. It also taught me to be proficient with the time I have available for research. Since first joining UQ SVS as a Postdoctoral Fellow in July 2017, I have published 24 papers, bringing my total to 34 publications. The quality and significance of this work is reflected by my exemplary publication record in some of the top journals in disease ecology. According to *Web of Science* analytics, four of my papers are among the top 10 most cited articles published at my institution in the last two years (out of 296 total articles). My research has garnered international recognition. I was invited to present work on new statistical tools for studying parasite epidemiology at the Ecological Society of Australia's 2018 International Conference and at the Australian Society for Parasitology's 2017 International Conference. Recently, I was sponsored to present my molecular analysis work at Texas A&M University's *Ecology and Evolutionary Biology* seminar series.

Referees

- Prof Jennifer Seddon, UQ Gatton Campus; j.seddon1@uq.edu.au
- A/Prof Ricardo Soares Magalhães, UQ Gatton Campus; r.magalhaes@uq.edu.au
- Dr Sonya Clegg, Oxford University; sonya.clegg@zoo.ox.ac.uk