

Tom Rhys Bishop CV

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Education

- Oct 2012 – Mar 2016 **University of Liverpool, UK**
PhD in Ecology
- Oct 2011 – Sep 2012 **Imperial College London, UK**
MRes Entomology *Distinction*
- Oct 2008 – Jun 2011 **Lady Margaret Hall, University of Oxford, UK**
BA (Hons) Biological Sciences *1st Class*
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Appointments

- Oct 2018 – present **University of Pretoria, South Africa**
Dept. of Zoology and Entomology
Extraordinary Lecturer (3-year contract)
- May 2018 – present **University of Liverpool, UK**
School of Environmental Sciences
Leverhulme Early Career Research Fellow
- Aug 2016 – Apr 2018 **University of Pretoria, South Africa**
Centre for Invasion Biology, Dept. of Zoology and Entomology
Vice-Chancellor's Postdoctoral Research Fellow
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Scientific Publications

GoogleScholar h-index: 12

Impact Factors (IF) as of February 2020

2020

Law, S.J., **Bishop, T.R.**, Eggleton, P., Griffiths, H.M., Ashton, L.A. and Parr, C.L. (2020) Darker ants dominate the canopy: testing macroecological hypotheses for patterns in colour along a microclimatic gradient. *Journal of Animal Ecology*, 89: 347-359 (IF = 4.364)

2019

Gaudard, C., Robertson, M.P. and **Bishop, T.R.** (2019) Low levels of intraspecific trait variation in a keystone invertebrate group. *Oecologia*, 4: 725-735 (IF = 2.915)

Bishop, T.R., Parr, C.L., Gibb, H., van Rensburg, B.J., Braschler, B., Chown, S.L., Foord, S.H., Lamy, K., Munyai, T.C., Okey, I., Tshivhandekano, P.G., Werenkraut, V. and Robertson, M.P. (2019) Thermoregulatory traits combine with range shifts to alter the future of montane ant assemblages. *Global Change Biology*, 25: 2162– 2173 (IF = 8.88)

Joseph, G.S., Muluvhahothe, M.M., Seymour, C.L., Munyai, T.C., **Bishop, T.R.** and Foord, S.H. (2019) Stability of Afromontane ant diversity decreases across an elevation gradient. *Global Ecology and Conservation*, 17: e00596 (IF = 2.751)

2018

Arnan, X., Andersen, A.N., Gibb, H., Parr, C.L., Sanders, N.J., Dunn, R.R., Angulo, E., Baccaro, F.B., **Bishop, T.R.**, Boulay, R., Castracani, C., Del Toro, I., Delsinne, T., Donoso, D.A., Elten, E.K., Enriquez, M.L., Fayle, T.M., Fitzpatrick, M.C., Gómez, C., Gove, A., Groc, S., Grossman, B.F., Guenard, B., Gunawardene, N., Heterick, B., Hoffmann, B., Janda, M., Jenkins, C., Klimes, P., Lach, L., Laeger, T., Leponce, M., Lucky, A., Menke, S., Mezger, D., Moses, J., Munyai, T.C., Paknia, O., Pearce-Duvet, J., Pfeiffer, M., Philpott, S.M., Souza, J., Tista, M., Vasconcelos, H.L. and Retana, J. (2018) Dominance-diversity relationships in ant communities differ with invasion. *Global Change Biology*, 24: 4614-4625 (IF = 8.88)

Nowrouzi, S., Andersen, A.N., **Bishop, T.R.** and Robson, S.K.A. (2018) Is thermal limitation the primary driver of elevational distributions? Not for montane rainforest ants in the Australian Wet Tropics. *Oecologia*, 188: 333-342 (IF = 2.915)

Gibb, H., Sanders, N.J., Dunn, R.R., Arnan, X., Vasconcelos, H.L., Donoso, D.A., Andersen, A.N., Silva, R.R., **Bishop, T.R.**, Gomez, C., Grossman, B.F., Yusah, K.M., Luke, S.H., Pacheco, R., Pearce-Duvet, J., Retana, J., Tista, M. and Parr, C.L. (2018) Habitat disturbance selects against both small and large species across varying climates. *Ecography*, 41:1184-1193 (IF = 5.946)

2017

Bishop, T.R. (2017), Taxonomic and functional ecology of montane ants. *Frontiers of Biogeography*, 9 (IF = 1.57)

Parr, C.L., Dunn, R.R., Sanders, N.J., Weiser, M.D., Photakis, M., **Bishop, T.R.**, Fitzpatrick, M.C., Arnan, X., Baccaro, F., Brandão, C.R.F., Chick, L., Donoso, D.A., Fayle, T.M., Gómez, C., Grossman, B., Munyai, T.C., Pacheco, R., Retana, J., Robinson, A., Sagata, K., Silva, R.R., Tista, M., Vasconcelos, H., Yates, M., and Gibb, H. (2017), GlobalAnts: a new database on the geography of ant traits (Hymenoptera: Formicidae). *Insect Conservation and Diversity*, 10: 5-20 (IF = 2.313)

Bishop, T.R., Robertson, M.P., van Rensburg, B.J. and Parr, C.L. (2017), Coping with the cold: minimum temperatures and thermal tolerances dominate the ecology of mountain ants. *Ecological Entomology*, 42: 105-114 (IF = 2.073)

Gibb, H., Dunn, R.R., Sanders, N.J., Grossman, B.F., Photakis, M., Abril, S., Agosti, D., Andersen, A.N., Angulo, E., Armbrrecht, I., Arnan, X., Baccaro, F.B., **Bishop, T.R.**, [60 others] and Parr, C.L. (2017), A global database of ant species abundances, *Ecology*, 98: 883-884 (IF = 4.285)

2016

Bishop, T.R., Robertson, M.P., Gibb, H., van Rensburg, B.J., Braschler, B., Chown, S.L., Foord, S.H., Munyai, T.C., Okey, I., Tshivhandekano, P.G., Werenkraut, V. and Parr, C.L. (2016), Ant assemblages have darker and larger members in cold environments. *Global Ecology and Biogeography*, 25: 1489-1499 (IF = 5.667)

Schofield, S.F., **Bishop, T.R.** and Parr, C.L. (2016), Morphological characteristics of ant assemblages differ among contrasting biomes. *Myrmecological News*, 23: 129-137 (IF = 2.619)

Májeková, M., Paal, T., Plowman, N.S., Bryndová, M., Kasari, L., Norberg, A., Weiss, M., **Bishop, T.R.**, Luke, S.H., Sam, K., Le Bagousse-Pinguet, Y., Lepš, J., Götzenberger, L. and de Bello, F. (2016), Evaluating

functional diversity: missing trait data and the importance of species abundance structure and data transformation. *PLoS ONE* 11(2): e0149270. (IF = 2.776)

2015

Gibb, H., Sanders, N.J., Dunn, R.R., Watson, S., Photakis, M., Abril, S., Andersen, A.N., Angulo, E., Armbrecht, I., Arnan, X., Baccaro, F.B., **Bishop, T.R.**, [34 others] and Parr, C.L. (2015), Climate mediates the effects of disturbance on ant assemblage structure. *Proceedings of the Royal Society B*, 282: 20150418. (IF = 4.847)

Bishop, T.R., Robertson, M.P., van Rensburg, B.J. and Parr, C.L. (2015), Contrasting species and functional beta diversity in montane ant communities. *Journal of Biogeography*, 42: 1776–1786. (IF = 3.884)

Ewers, R.M., Boyle, M.J.W., Gleave, R., Plowman, N.S., Benedick, S., Bernard, H., **Bishop, T.R.**, Bakhtiar, E.Y., Chey, V.K., Chung, A.Y.C., Davies, R.G., Edwards, D.P., Eggleton, P., Fayle, T.M., Hardwick, S.R., Homathevi, R., Kitching, R.L., Khoo, M.S., Luke, S.L., March, J.J., Nilus, R., Pfeifer, M., Rao, S.V., Sharp, A.C., Snaddon, J.L., Stork, N.E., Struebig, M.J., Wearn, O.R., Yusah, K.M. and Turner E.C. (2015) Logging cuts invertebrate dominance of tropical rainforest ecosystem functions. *Nature Communications*, 6. (IF = 11.88)

2014

Bishop, T.R., Robertson, M.P., van Rensburg, B.J. and Parr, C.L. (2014), Elevation-diversity patterns through space and time: ant communities of the Maloti-Drakensberg Mountains of southern Africa. *Journal of Biogeography*, 41 (12): 2256-2268. (IF = 3.884)

2013

Bishop, T. R., Botham, M. S., Fox, R., Leather, S. R., Chapman, D. S. and Oliver, T. H. (2013), The utility of distribution data in predicting phenology. *Methods in Ecology and Evolution*, 4 (11): 1024–1032. (IF = 7.099)

Manuscripts in review

Boyle, M.J.W., **Bishop, T.R.**, Luke, S.H., Hardwick, S.R., Lane-Shaw, R.I., Pfeifer, M., van Breugel, M., Evans, T.A., Chung, A.Y.C. and Ewers R.M. Interactions between microclimate and physiology shape rainforest ant communities after disturbance and conversion to oil palm (*Global Change Biology*).

Cooke, J., Araya, Y., Bacon, K.L., Bagniewska, J.M., Batty, L., **Bishop, T.R.**, Burns, M., Charalambous, M., Daversa, D.R., Dougherty, L.R., Dyson, M., Fisher, A.M., Forman, D., Garcia, C., Greene, K., Harney, E., Hesselberg, T., John, E.A., Knell, R., Maseyk, K., Mauchline, A.L., Peacock, J., Pernetta, A.P., Pritchard, J., Sutherland, W.J., Thomas, R.L., Tigar, B., Wheeler, P., White, R.L., Worsfold, N.T. and Lewis, Z. Teaching and learning in ecology: a horizon scan of emerging challenges and solutions (*People and Nature*)

Jins, V.J., Panigrahi, M., **Bishop, T.R.** and Jaypal, R. Reptile richness along a tropical elevation gradient: A case study from Agasthyamalai Hills in the southern Western Ghats of India. (*Biotropica*)

Grants

2020	National Research Foundation (South Africa) Incentive Funding (50,000 ZAR)
2019	Royal Entomological Society Goodman Award (£2,700, grant to build outreach)
2018	Early Career Researcher Fund, University of Liverpool (£2,000)
2017	Leverhulme Early Career Research Fellowship (£126,000)
2017	Claude Leon Foundation Postdoctoral Fellowship (550,000 ZAR; declined)
2016	University of Pretoria Vice-Chancellor's Fellowship (440,000 ZAR)
2014	IUSSI Travel Grant (£1,300)
2013-15	NERC Life Sciences Mass Spectrometry Support Fund (£7,000)
2012-16	NERC PhD studentship (£50,200)
2011	Grundy Educational Trust Scholarship for MRes (£3,000)
2009	Lady Margaret Hall, University of Oxford, Heron-Allen Travel Scholarship (£500)

Awards

2019	National Research Foundation (South Africa) Rated Scientist: Y (young) category
2018	Best paper in <i>Ecological Entomology</i> during 2016/2017
2017	Publons Top Reviewer for Agricultural and Biological Sciences
2012	Imperial College Silwood Park Poster Competition: 1 st Place

Student Co-Supervision

2020 – present	Jabulile Mzizi (Hons), University of Pretoria.
2019 – present	Olive Summerfield (Hons), University of Liverpool.
2019	Eileen Engelbrecht (Hons), University of Pretoria.
2018 – present	Chaim Lasmar (PhD), Universidade Federal de Lavras.
2017	Clara Gaudard (Hons), University of Pretoria (Distinction, published paper).
2016 – 2017	Sarah Newman (MSc), University of Pretoria (Distinction).
2016	Greg de Jong (Hons), University of Pretoria.
2014 – 2015	Sophie Schofield (MSc), University of Liverpool (published paper)
2013 – 2014	Sophie Schofield (Hons), University of Liverpool.

Teaching Experience

2019

Liverpool	- MSc Rewilding and Land Management. Field course and classroom teaching in the Cairngorms, Scotland (joint teaching lead). - 1 st year Ecological Sampling. Field course and classroom teaching at Dale Fort, Wales (teaching lead).
Pretoria	- 3 rd year Community Ecology. Field course to the Drakensberg Mountains (teaching lead). - 3 rd year Insect Diversity (lecturer).
External	- Royal Society-DFID Ant Taxonomy and Ecology Training Course in Ghana (teaching lead)

2018

Pretoria	- 3 rd year Community Ecology. Field course to the Drakensberg Mountains (teaching lead). - 3 rd year Insect Diversity (lecturer).
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External - Royal Society-DFID Ant Taxonomy and Ecology Course in South Africa (teaching lead).

2017

Pretoria - 3rd year Community Ecology. Field course to the Drakensberg Mountains (teaching lead).

2016

Pretoria - 3rd year Community Ecology. Field course to the Drakensberg Mountains (teaching leaf).

Liverpool - 1st year Ecological Sampling. Field course and classroom teaching at Dale Fort, Wales (teaching assistant).

- 1st to 3rd year Statistics for Biologists (teaching assistant).

2015

Liverpool - 1st year Ecological Sampling. Field course and classroom teaching at Dale Fort, Wales (teaching assistant).

- 1st to 3rd year Statistics for Biologists (teaching assistant).

Invited Talks

Jul 2020

ICE 2020, Helsinki, Finland

Invited to speak. Symposium "Physiological Responses to Environmental Stress"

Jul 2014

Departmental Seminar, University of Queensland, Australia

Taxonomic and functional beta diversity of montane ant communities

Mar 2014

Departmental Seminar, University of Pretoria, South Africa

Diversity through space and time: ants of the Maloti-Drakensberg mountains, southern Africa

Selected Conference Talks

Jul 2019

BES Macroecology SIG Meeting, University of Exeter, UK

The scaling and sharing of ant global trait diversity

Dec 2018

Annual Meeting of the British Ecological Society, Birmingham, UK

The scaling and sharing of ant global trait diversity

Jul 2017

ZSSA/ESSA Joint Congress, Pretoria, South Africa

Life on the Dragon's Back: The cold, not the heat, limits the distribution and behaviour of montane ants

Dec 2015

BES, Edinburgh, UK

Global variation in ant colour is controlled by temperature and body size

Jun 2015

EU Macroecology Meeting, University of Copenhagen, Denmark

The colour of ants

Jul 2014

IUSSI, Cairns, Australia

Taxonomic and functional beta diversity of montane ant communities

Aug 2013

11th INTECOL Congress, London, UK

Community and functional structure across an elevation gradient: ant assemblages in the Drakensberg Mountains, South Africa

Jul 2012

RES Annual Meeting, Cambridge, UK

The utility of distribution data in predicting insect phenology

Scientific Service

2019-20	BES MacroSIG 2020 Annual Meeting Organiser Sole local organiser in Liverpool (~80 delegates)
2018-present	<i>Journal of Biogeography</i> Editorial Review Board A board of trusted reviewers for the journal.
2018	Ecology and Marine Biology Seminar Series Co-organiser University of Liverpool
2017	ZSSA/ESSA 2017 Pretoria. Symposium Co-organiser “Social Insects in Africa”

Reviewing

Journals: *Acta Oecologica; American Naturalist; Applied Vegetation Science; Asian Myrmecology; Basic and Applied Ecology; Biodiversity and Conservation; Biological Conservation; Biotropica; Community Ecology; Diversity and Distributions; Ecography; Ecological Entomology; Ecology; Ecology Letters; European Journal of Entomology; Functional Ecology; Global Ecology and Biogeography; Insect Conservation and Diversity; Insectes Sociaux; Journal of Animal Ecology; Journal of Biogeography; Journal of Hymenoptera Research; Journal of Insect Conservation; Journal of the Royal Society Interface; Methods in Ecology and Evolution; Myrmecological News; PeerJ; PLOS One; Royal Society Open Science; Scientific Reports; Zoologischer Anzeiger.*

Publons verified profile: publons.com/researcher/1198165/tom-rhys-bishop/

Grants: Czech Science Foundation (Czech Republic); National Research Foundation (South Africa); Liverpool ECR Fund.

Referees

Prof. Catherine Parr (kate.parr@liverpool.ac.uk), Department of Earth, Ocean and Ecological Sciences, University of Liverpool, Liverpool, L69 3GP, UK

Prof. Mark Robertson (mark.robertson@zoology.up.ac.za), Centre for Invasion Biology, Department of Zoology and Entomology, University of Pretoria, Pretoria 0002, South Africa

Dr Paul Eggleton (p.eggleton@nhm.ac.uk), Entomology Department, Natural History Museum, Cromwell Road, London SW7 5BD, UK