

# Curriculum Vitae

## Terence A. Bellingan

Production Scientist

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### Tertiary education: Rhodes University, Grahamstown

2012-2017: Doctoral studies (PhD). (To be conferred April 2018).

Thesis title: **Biotic and abiotic drivers of macroinvertebrate assemblage structure in selected South African rivers.**

2008-2010: Masters Degree (MSc). (Obtained 2010, Conferred April 2011).

Thesis title: **The diversity of aquatic insects in the Tsitsikamma region, with implications for aquatic ecosystem conservation.**

2007: BSc Hons (Entomology) (Conferred March 2008).

Research projects on: **Cicada (Hemiptera: Cicadidae) phylogenetics and biogeography; Insect biological control on water hyacinth**

2004-2006: BSc (Botany and Entomology) (Conferred April 2007).

### Other Qualifications

SASS5 Accreditation: March 2011 – Present (certified to carry out SASS5 protocol up to June 2020).

### Work Experience

2017 - WRC Project K5/2538 – Field collection of macroinvertebrates using various techniques from the Krom River in the Cedarberg, where trout have invaded, and dams in the same catchment, where bluegill sunfish and bass persist. Collection work was accompanied by training students from previously disadvantaged backgrounds, registered as honours level students at historically black universities (WRC Project title: Rotenone policy support and capacity development through integrating aquatic-ecosystem monitoring in post graduate research projects with particular emphasis on hbu's)

2012/2013/2014/2015 – WRC Project K5/2261 – Field collection on the Rondegat River (Cedarberg, WC) using various techniques, followed by expert species-level identification of invertebrates collected.

2011 – WRC Project K5/2039 – Collection and identification of freshwater fish in the Kirkwood area

2011 - WRC Project K8/922 – Field collection on the Rondegat River (Cedarberg, WC) using various techniques, followed by expert species-level identification of invertebrates collected.

March 2010 - April 2011: DST/NRF Internship post in the Department of Aquatic Invertebrates at the Albany Museum, Grahamstown.

### Academic awards

Young Scientist Award: Best presentation at a congress of the Entomological Society of Southern Africa

- Joint congress of the Entomological Society of Southern Africa (ESSA) and Zoological Society of Southern Africa (ZSSA), Grahamstown, Rhodes University, Grahamstown. 12-17 July, 2015.

Best presentation in PhD category: Runner up

- Centre for Invasion Biology Annual Research Meeting, Stellenbosch, Western Cape, South Africa. 27-29 November, 2013.

### Professional associations:

- Member, Southern African Association of Aquatic Scientists (SASAQS)
- Member, Entomological Society of Southern Africa (ESSA)

### Peer reviewed publications:

Ellender, B.R., Rivers-Moore, N.A., Coppinger, C.R., Bellingan, T.A., Weyl O.L.F. 2016. Towards using thermal stress thresholds to predict salmonid invasion potential. *Biological Invasions*, 18:3513-3525.

Jackson, M.C., Woodford D.J., Bellingan, T.A., Weyl O.L.F., Potgieter, M.J., Rivers-Moore, N.A., Ellender, B.R., Fourie, H.E. Chimimba, C. 2015. Trophic overlap between fish and riparian spiders: potential impacts of an invasive fish on terrestrial consumers. *Ecology & Evolution*, 6:6, 1745-1752

Bellingan, T.A., Woodford D.J., Gouws J., Villet M.H.V., Weyl O.L.F. 2015. Rapid bioassessment of the effects of repeated rotenone treatments on invertebrate assemblages in the Rondegat River, South Africa. *African Journal of Aquatic Science*, 40:1, 89-94.

Woodford D.J., Barber-James H.M., Bellingan T.A., Day J.A., de Moor F.C., Gouws J., Weyl O.L.F. 2013. Immediate impact of piscicide operations on a Cape Floristic Region aquatic insect assemblage - a lesser of two evils? *Journal of Insect Conservation*. 17:959-973

### Conference presentations:

Hugo. S., Bellingan, T. A. & Weyl, O.L.F. 2017. Keiskamma aquatic invertebrate communities: new multivariate modelling methods. **Oral presentation.** At: the 54th annual congress of the Southern African Society of Aquatic Scientists, 25-28 June 2017, Birchwood Hotel and O.R. Tambo conference Centre, Boksburg.

Hugo, S., Altwegg, R., Bellingan, T. A. & Weyl, O. L. F. 2017. New methods for analysing species communities: multivariate modelling and Bayesian ordination. **Oral presentation.** At: the ESSA & ZSSA combined Conference, Pretoria, 2-7 July 2017.

Bellingan T.A., Woodford D.J., Villet M.H.V., Gouws, J., Weyl O.L.F. 2016. The effect of consecutive rotenone treatments on the invertebrate fauna of the Rondegat River, Western Cape, South Africa. **Oral presentation.** At: 53rd annual congress of the South African Society of Aquatic Science. Skukuza, 27-30 June, 2016.

Bellingan T.A., Jackson M., Woodford D.J., Villet M.H.V., Weyl O.L.F. 2015. Community and food web structure in the Keiskamma River system: A century after the introduction of invasive trout. **Oral presentation.** At: Joint biannual conference of the Entomological Society of Southern Africa and the Zoological Society of Southern Africa, Grahamstown, Eastern Cape, South Africa. 12-17 July 2015.

Bellingan T.A., Jackson M., Woodford D.J., Villet M.H.V., Weyl O.L.F. 2014. Community and food web structure in the Keiskamma River system, Eastern Cape, South Africa. **Oral presentation.** At: South African Society of Aquatic Science. Thaba Nchu, Free State, South Africa, 22 – 26 June 2014

Bellingan T.A., Woodford D.J., Villet M.H.V., Weyl O.L.F. 2013. The effect of consecutive rotenone treatments on selected invertebrate fauna from the Rondegat River. **Oral presentation.** At: Centre for Invasion Biology Annual Research Meeting, Stellenbosch, Western Cape, South Africa. 26-28 November.

Bellingan, T.A., Villet, M.H.V. & Weyl, O.L.F. 2013. Can we detect impacts of trout in small mountain streams by examining invertebrate communities using a multivariate approach? **Oral presentation**. At: South African Society of Aquatic Science. Arniston, Western Cape, South Africa, 30 June - 4 July.

Bellingan, T.A., Woodford, D.J., Villet, M.H.V., Weyl, O.L.F. 2012. The impact of alien fish removal operations on the macroinvertebrates of the Rondegat River. **Oral presentation**. At: Centre for Invasion Biology Annual Research Meeting, Stellenbosch, Western Cape, South Africa. 27-29 November.

Woodford D.J., Weyl O.L.F, Bellingan T.A., de Moor F.C., Day J.A. 2011. Setting a monitoring baseline for assessing the effects of piscicide operations on the biota of the Rondegat River. **Oral Presentation**. At: South African Society of Aquatic Science. Ithala Game Reserve, KwaZulu Natal, South Africa, 26-30 June.

Bellingan T.A., de Moor F.C., Villet M.H. 2009. Biotic signatures of rivers in and around the Tsitsikamma National Park based on Trichoptera. **Oral presentation**. At: 16<sup>th</sup> Congress of the Entomological Society of Southern Africa. Department of Conservation Ecology and Entomology, Stellenbosch University, Stellenbosch, Western Cape, South Africa. 5-7 July.

Bellingan T.A., de Moor F.C., Villet M.H. 2009. Biotic signatures of rivers in and around the Tsitsikamma National Park based on Trichoptera. **Oral presentation**. At: Fynbos Forum. Bredasdorp, Western Cape, South Africa. 4-7 August.

Bellingan T.A., de Moor F.C., Samways M.S., Simaika J. 2008. Tsitsikamma Rivers Project. **Oral presentation**. At: Tsitsikamma National Park, Scientist's Symposium. 15-16 July.

### Conference proceedings and other publications:

Gouws, E.J., Malan, D., Job, N., Niewoudt, H., Nel, J. Dallas, H., Bellingan, T.A. 2012. Chapter Two: Freshwater Ecosystems. In: Turner, A. A. (ed.). Western Cape Province State of Biodiversity 2012. CapeNature Scientific Services, Stellenbosch. ISBN: 978-0-621-41407-3

Woodford D.J., Weyl, O.L.F., Cunningham, M., Bellingan, T., de Moor, F.C., Barber-James H., Day, J.A., Ellender, B.R., Richardson, N.K. 2012. KV304/12: Monitoring the impact and recovery of the biota of the Rondegat River after the removal of alien fishes. **Field report to the Water Research Commission**

de Moor F.C., Bellingan T.A. 2010. Caddisflies as indicators of climate change: Preliminary data from the southern Cape, South Africa. Congress pg 8 and SIL 2010 Abstracts. *In*: SIL 2010 XXXI Congress of the International

Association of Limnology. ICC Cape Town, Western Cape, South Africa. 15-20 August.

Bellingan T.A. 2009 Aug. Tsitsikamma's short-lived ancients. Nature's stories. *Nature's News*. Issue **26**: 6-7.

Bellingan T.A. 2008 Dec. A day in my life on the Tsitsikamma Rivers Project. Nature's stories. *Nature's News*. Issue **24**: 6-7.