

# Alexander Claus Winkler

## Personal Details

Date of Birth: 03-08-1988

Gender: Male

ID: 8808035080082

Nationality: South African / German

Languages: English (fluent), Afrikaans (conversational), Portuguese (conversational)

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 @alexwinkrsa

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## Education

**BSc (PhD)**, Fisheries Science, 2018. Degree by thesis: Using a multi-method approach to understand the movement patterns and the associated environmental correlates of an iconic West African recreational fish (**Graduated**) (**Rhodes University**) available at:

[http://vital.seals.ac.za:8080/vital/access/manager/Repository/vital:30597?site\\_name=GlobalView&query=winkler&sort=ss\\_dateNormalized+desc%2Csort\\_ss\\_title+asc&queryType=vitalDismax](http://vital.seals.ac.za:8080/vital/access/manager/Repository/vital:30597?site_name=GlobalView&query=winkler&sort=ss_dateNormalized+desc%2Csort_ss_title+asc&queryType=vitalDismax)

**BSc (Masters)**, Fisheries Science, 2014. Degree by thesis: Aspects of the biology of an inshore Sparid fish *Diplodus cervinus* (Lowe 1841) off the southern coast of Angola. (**Graduated with distinction**) (**Rhodes University**) available at:

[http://vital.seals.ac.za:8080/vital/access/manager/Repository/vital:5361?site\\_name=GlobalView&exact=sm\\_creator%3A%22Winkler%2C+Alexander+Claus%22&sort=sort\\_ss\\_title%2F](http://vital.seals.ac.za:8080/vital/access/manager/Repository/vital:5361?site_name=GlobalView&exact=sm_creator%3A%22Winkler%2C+Alexander+Claus%22&sort=sort_ss_title%2F)

**BSc (Honours)**, Ichthyology and fisheries science, 2010. Degree by coursework and thesis: The effect of a dietary kelp additive and protein level on abalone *Haliotis midae* (Linnaeus) growth and canning yield. (**Graduated with distinction**) (**Rhodes University**).

**BSc**, majoring in Ichthyology and Fisheries Science and Botany, 2009. (**Graduated with distinction in Ichthyology and Fisheries Science**) (**Rhodes University**).

## Achievements and Awards

African Coelacanth Ecosystem Project (ACEP) Postdoctoral Fellow Award – 2019

NRF Knowledge, Interchange and Collaboration (KIC) Travel Award – 2017

4<sup>th</sup> International Conference on Fish Telemetry Student Travel Award – 2017

Rhodes University Vice Chancellors Award for Community Engagement – 2017

Margaret Smith bursary – 2016

NRF – DAAD in country PhD Scholarship 2013 to 2015

NRF – DAAD in country MSc Scholarship 2011 and 2012

Rhodes University Fishing Club President – 2011

Rhodes University Full Academic Colours – 2010

Rhodes University Dean's List for Academic Merit – 2010

Rhodes University Fishing Club Chairman – 2010

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## Other Qualifications and Courses (all certificates or licences available on request)

Class IV Commercial Scuba Diving Supervisor – obtained at the RDU at the University of Cape Town 2018

Class IV Commercial Scuba Diver – obtained at the RDU at the University of Cape Town 2013

Category C Commercial Skippers Licence (vessel < 9m, 40 NM off-shore restriction) – issued by the South African Maritime Safety Association (SAMSA)

Veterinary proficiency certificate to implant transmitters and take blood samples from fish  
Pre-Sea Safety Course - SAMSA  
Code 08 Drivers Licence (light motor vehicle)  
Level 3 First Aid – NOSA Port Elizabeth (2019)  
Rescue Level Scuba Diver - PADI

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**Professional Positions**

**African Coelacanth Ecosystem Project (ACEP) Postdoctoral Fellow (Current)**– Independent postdoctoral researcher based at Rhodes University working on a variety of projects relating to the understanding of how climate change and exploitation effect fish physiology and activity patterns with projects based in South Africa, Namibia and Angola. Contact person: Warren Potts – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**GCRF One Ocean Hub Co-investigator (Current)** – Co-investigator working on the sustainable fisheries component of a large multinational project lead by Strathclyde University aiming to transform our response to the urgent challenges facing our ocean: Contact – [oneocean-hub@strath.ac.uk](mailto:oneocean-hub@strath.ac.uk)

**IUCN Snapper Seabream and Grunt specialist group member (Current)** – A member of the conservation assessment group due to my specialist knowledge on sparid fish taxonomy and conservation biology. Contact: Barry Russell - [Barry.Russell@magnt.net.au](mailto:Barry.Russell@magnt.net.au)

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**Work Related Experience**

**Ocean Tracking Network (OTN) Data and Equipment Management (2013 - current)** – Responsible for the management of all acoustic telemetry data and equipment collected and used on two OTN projects in southern Angola and South Africa – [a.childs@ru.ac.za](mailto:a.childs@ru.ac.za)

**Rhodes University Recreational Fisheries Research Group Associated Scientist (2013 – current)** – Participated as an associated research scientist in the formulation and collection of recreational fisheries data during various shore and boat-based fishing tournaments. – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**Conference and Workshop Coordinator (2015 & 2019)** – Coordinated the running and planning of an otolith preparation and ageing workshop as well as the 5<sup>th</sup> SAMLS Symposium (see [www.samls5.com](http://www.samls5.com)) in 2015 and 2019 respectively. Contact person: Warren Potts – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**Commercial Diving Supervisor and Diver (Class IV) (2013 – current)** – Contractual work for the South African Institute of Aquatic Biodiversity (SAIAB), South African Environmental Observation Node (SAEON) and Aquatic Ecosystem Services (AES) either servicing off-shore moorings or conducting benthic habitat assessments, > 100 diving hours logged, supervisors completed in 2018. Contact person: Russell Chalmers – [pieter.truter@uct.co.za](mailto:pieter.truter@uct.co.za)

**Scientific manuscript reviewer (2013 – current)** – The African Journal of Marine Science, Cahiers de Biologie Marine, the Journal of Fish Biology and marine and freshwater research - <https://publons.com/researcher/1305690/alexander-claus-winkler/>

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**Grants**

**GCRF One Ocean Hub (2019 – 2024)** – Co-investigator and collaborator on writing the sustainable fisheries component of the successful One Ocean Hub proposal (GCRF £ 20 million). Contact person: Warren Potts – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**NRF South Africa/Namibia Bilateral grant (2017 – 2019)** – Conceptualising and co-writing of the successful proposal to conduct thermal physiology work on fish being affected by a climate change induced hybridisation event occurring in Namibian coastal waters (NRF R 1.2 million). Contact person: Warren Potts – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**NRF African Coelacanth Ecosystem Programme grant (2018 – 2020)** - Conceptualising and co-writing of the successful proposal to conduct fish energetic studies on the effects of exploitation and climate change on a resident reef fish species using advanced acoustic telemetry techniques (NRF R 2 million). Contact person: Warren Potts – [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

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**Publication Record (published, chronological order)**

 <https://orcid.org/0000-0001-7864-8243>

Winkler, A.C., Manneheim, S., Childs, A.R., Santos, C., Debeer, C., Potts, W.M. (2019). A snapshot dietary assessment of the Baía dos Tigres, cape fur seal colony. *African Journal of Marine Science*. (In press)

Winkler, A.C., Duncan M.I. Farthing M., Potts W.M, (2019) Sectioned or whole otoliths? A global review of hard structure preparation techniques used in ageing sparid fishes. *Reviews in Fish Biology and Fisheries*. 29: 605-611

Potts, W.M., Parkinson, M., Sauer, W., Santos, C., Winkler, A.C., Childs A.R. (2018). Testing the validity of catch rate and conventional tagging information for understanding fish migration patterns using acoustic telemetry data. *Canadian Journal of Fisheries and Aquatic Science* (OTN special edition). 75 (12): 2364-2374. doi: 10.1139/cjfas-2017-0428

Arkert, N.K., Childs, A.R., Parkinson, M.C., Winkler, A.C., Butler, E.C., Manneheim, S., Potts, W.M., (2018). Evaluating the effects of catch-and-release angling on Cape stumpnose (*Rhabdosargus holubi*) in a South African Estuary. *African Journal of Marine Science*. 40 (3): 235-244. doi: 10.2989/1814232X.2018.1494041

Butler, E.C., Childs, A.R., Winkler, A.C., Potts, W.M. (2018). Evidence for protandry in *Polydactylus quadrifilis* in the Kwanza Estuary, Angola, and its implications for local fisheries. *Environmental Biology of Fishes*, 101(2), 301 - 313. doi: 10.1007/s10641-017-0699-6

Gwilliam, M.P.\*, Winkler, A.C.\*, Potts, W.M., Sauer, W.H.H., Shaw, P.W., McKeown, N.J. (2018). Integrated genetic and morphological data eco-evolutionary divergence of Angolan and South African populations of *Diplodus hottentotus*. *Journal of Fish Biology*. 92: 1163-1176. doi:10.1111/jfb.13582. \*Joint authors

Farthing, M., Winkler, A.C., Anderson, K., Kerwath, S., Potts, W.M., Wilke, C. (2018). The age and growth of hottentot (*Pachymetapon blochii*) before and after the South African line fish state of emergency in 2000. *African Journal of Marine Science*. 40(2): 187:196. doi: 10.2989/1814232X.2018.1475302

Manneheim, S.L., Childs, A.R., Butler E.C., Winkler, A.C., Parkinson, M.C., Farthing, M.W., Zwiig, T. McCord, M., Drobniowska, N., Potts, W.M. (2018). Working with not against recreational anglers: evaluating a pro-environmental behaviour strategy for improving catch-and-release behaviour. *Fisheries Research*. 206: 44-56. doi: 10.1016/j.fishres.2018.04.016

Winkler, A. C., Santos, C. V., & Potts, W. M. (2014). Diagnosing the sexual pattern of *Diplodus cervinus hottentotus* (Pisces: Sparidae) from southern Angola. *African Journal of Marine Science*, 36(4), 505-512. doi: 10.2989/1814232X.2014.969771

Winkler, A. C., Santos, C. V., & Potts, W. M. (2014). Ontogenetic and seasonal shifts in the diet of *Diplodus cervinus hottentotus* (Pisces: Sparidae) in southern Angola. *African Journal of Marine Science*, 36(3), 323-330. doi: 10.2989/1814232X.2014.951392

Peter, C. I., Coombs, G., Huchzermeyer, C. F., Venter, N., Winkler, A. C., Hutton, D., ... & Johnson, S. D. (2009). Confirmation of hawkmoth pollination in *Habenaria epipactidea*: leg placement of pollinaria and crepuscular scent emission. *South African Journal of Botany*, 75(4), 744-750. doi: 10.1016/j.sajb.2009.08.007

**PhD publications (In final stages of preparation)**

Winkler, A.C., Parkinson, M., Sauer, W., Santos, C., Childs A.R., Potts, W.M. (in prep). Acoustic telemetry reveals behavioural diversity and differing environmental migratory cues in an iconic West African game fish. *Marine Ecology Progress Series*.

Winkler, A.C., Parkinson, M., Sauer, W., Santos, C., Childs A.R., Potts, W.M. (in prep). Using a multimethod approach in identifying important fine-scale habitat use in response to environmental correlates of an iconic West African game fish. *Journal of Fish Biology*.

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### **Conferences**

Winkler A.C., Childs, A.R., Parkinson, M.C., Henriques R., Skeeles M., Santos, C., Potts, W.M., (2019) The importance of understanding intraspecific behavioural variation in migratory fishes and its impact on the adaptability of these fishes to climate change. Oral presentation, *3<sup>rd</sup> Species On the Move*, Skukuza, Kruger National Park, South Africa.

Winkler A.C., Parkinson, M.C., Childs, A.R., Santos, C., Potts, W.M., (2017) Acoustic telemetry reveals behavioural complexity in the leerfish (*Lichia amia* Teleostei: Carangidae) in southern Angola. Oral presentation, *4<sup>th</sup> International Conference on Fish Telemetry*, Cairns, Australia.

Winkler A.C., Parkinson, M.C., Childs, A.R., Santos, C., Potts, W.M., (2017) Acoustic telemetry reveals behavioural complexity in the leerfish (*Lichia amia* Teleostei: Carangidae) in southern Angola. Oral presentation, *South African Marine Science Symposium*, Port Elizabeth, South Africa.

Winkler A.C., Parkinson, M.C., Childs, A.R., Sauer, W.H.H, Roberts, M. Potts, W.M., (2016) Using acoustic telemetry to understand the intraspecific variation in the thermal range of *Lichia amia* in southern Angola. Poster presentation, *Benguela Symposium*, Cape Town, South Africa.

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### **Workshops**

Hidden Markov models for animal movement and other ecological data, 7<sup>th</sup> March 2016, Ocean Research, Mossel Bay, South Africa.

Movement ecology workshop, 5<sup>th</sup> February 2015, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa.

South Africa – Namibia Joint Science and Technology Research Collaboration successful applicant launching workshop, 8-10 March 2017, Windhoek, Namibia

GCRF One Ocean, proposal writing workshop, 29 March – 1 April 2018, Glasgow, Scotland.

WIOMSA – Marine Organism Response to Climate Change Effects – Adaption or Extinction? 8 – 10 October 2018, Mombasa, Kenya

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### **Teaching and Supervision**

#### **Graduate students:**

2019 – present, Lauren Bailey, Rhodes University, (PhD, supervisors: W. Potts and A. Childs)

2016 – present, Edward Butler, Rhodes University, (PhD, supervisors: W. Potts and A. Childs)

2018 – present, Micheal Skeeles, Rhodes University, (MSc, supervisors: W. Potts and A. Childs) \*Awarded a PhD scholarship to pursue a PhD at Deakin University, Australia

2019 – present, Brett Pringle, Rhodes University, (MSc, supervisors: W. Potts and A. Childs)

2013 – present, Honours students, Rhodes University, I have supervised and co-supervised various honours students working on smaller research projects primarily on fish life history, physiology and the effects of catch and release angling

**Lecturing**

2019, Lectured honours year Ichthyology students at Rhodes University on the current and potential effects of climate change on marine fish population – [p.britz@ru.ac.za](mailto:p.britz@ru.ac.za)

2016 – 2017, Lectured honours year Zoology students at the University of Fort Hare on how to conduct and analyses fish life history studies in the context of how fish life histories have evolved. Contact person: Niall Vine – [NVine@ufh.ac.za](mailto:NVine@ufh.ac.za)

2013 – 2018, Lectured second year undergraduate Ichthyology students at Rhodes University on how to conduct and analyses fish life history studies – [p.britz@ru.ac.za](mailto:p.britz@ru.ac.za)

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**References**

**Prof Warren Potts:** Associate Professor of Ichthyology, DIFS, Rhodes University

Relationship: MSc and PhD supervisor

Tel: +27 (0)46 603 8415, Email: [w.potts@ru.ac.za](mailto:w.potts@ru.ac.za)

**Dr Amber Childs:** Lecturer, DIFS, Rhodes University

Relationship: PhD co-supervisor

Tel: +27 (46) 603 8317, Email: [a.childs@ru.ac.za](mailto:a.childs@ru.ac.za)

**Dr Rhett Bennet:** Shark and ray conservation officer (WIO), Wildlife Conservation Society

Relationship: Collaborator

Tel: +27 084 329 9272, Email: [rbennet@wcs.org](mailto:rbennet@wcs.org)