

CURRICULUM VITAE: DR AMBER-ROBYN CHILDS

Nationality	South Africa
Birth date	23 April 1980
Sex	Female
Present Position	Associate Professor, Department of Ichthyology and Fisheries Science (DIFS), Rhodes University
Specialisation	Fish Movement Ecology and Habitat Connectivity
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Biographical

I joined the Department of Ichthyology and Fisheries Science (DIFS), Rhodes University in 2014. I am a fisheries ecologist with broad research interests in the biology, ecology, physiology and movement behaviour and habitat connectivity of estuarine and coastal fishes, with implications for fisheries and climate change. Research from our lab (<https://www.safisheriesecologyresearchlab.com>) also involves the biological and social aspects of recreational fisheries. Ultimately, I am passionate about co-constructing knowledge on our fish resources (and its users) to improve our understanding of the ever-increasing anthropogenic pressures and environmental challenges as a result of overexploitation and climate change. To develop solutions, we need to better understand the problem and the ability to adapt in our changing world. My research has produced 50 peer-reviewed manuscripts in ISI-rated journals, and I currently hold a NRF Y-rating. I have a google scholar H-index of 17. Throughout my research career, I have attended, presented at or have been co-author on several international and national conferences.

I am currently serving as a non-executive Director on the Board of the Council for Scientific and Industrial Research (CSIR). I also serve on the SANCOR Steering Committee as the Eastern Cape Representative. I have served on the organising committee for the 2nd International Conference on Fish Telemetry in 2013, and the South African Marine Linefish Symposium held in July 2019. I have collaborated with national and international researchers and have had the opportunity to conduct research at foreign institutes and universities. I am currently a member of the COST Action CA19107, Unifying Approaches to Marine Connectivity for improved Resource Management for the Seas (SEA-UNICORN) (<https://www.sea-unicorn.com>). I have also reviewed several manuscripts for international ISI-rated journals and acted as an external examiner. I have supervised/co-supervised 28 graduated students (7 PhD, 8 MSc and 13 BSc Honours) and am currently supervising/co-supervising 11 students (3 PhD, 5 MSc, 3 BSc Honours). I have lectured in the fields of Fish Life History, Diversity and Anatomy, Behavioural Ecology and Applied Ichthyology, Biotelemetry and Climate Change. I have coordinated undergraduate courses (ICH III: 2013, 2016, 2018, ICH II: 2015, 2019, 2020, 2021, 2022). I was nominated for the Rhodes University Vice-chancellors Teaching Award in 2018. I have given numerous public lectures, served at the National Science Festival each year, and have worked closely with local angling communities, and am currently involved in engaged research with recreational anglers which was awarded the Rhodes University Vice Chancellors Community Engagement award in 2017.

I obtained my PhD thesis, entitled 'Estuarine-dependency and multiple habitat use by dusky kob *Argyrosomus japonicus* (Pisces Sciaenidae)' from Rhodes University in 2013. My PhD research used acoustic telemetry and otolith microchemistry, to determine the movement behaviour, migration and estuarine-coastal connectivity including the drivers of connectivity of a highly threatened sciaenid. I completed my MSc (Cum Laude), entitled 'Movement patterns of spotted grunter, *Pomadasys commersonnii* (Haemulidae), in a highly turbid South African Estuary' in fisheries ecology in 2005. My MSc research, which was the first estuarine biotelemetry study in South Africa focused on using manual and passive acoustic telemetry techniques to determine estuarine movement patterns, home range and environmental factors affecting estuarine movement of an over-exploited haemulid. For my MSc research on the movement and management of an endemic coastal fishery species, I was awarded the S₂A₃ Bronze Medal. Both my MSc and PhD formed part of two larger SA-Norway programmes, which involved research on the movement, ecology and management of important estuarine-dependent fishery species. During the

period between my MSc and PhD research, I lived and worked in Angola for two years, conducting research on the inshore fisheries in southern Angola, including biological and ecological research on key recreational fishery species and on the recreational fisheries resource. Upon my return, I was a research assistant at the South African Institute for Aquatic Biodiversity (SAIAB). I conducted my undergraduate studies and my BSc Honours at Rhodes University, Makhanda, South Africa. My honours research was on the oceanographic drivers of the KwaZulu Natal sardine *Sardinops sagax* run, in collaboration with our management agency DFFE, and involved ocean research on the 'Algoa' and 'Africana' research vessels. I completed my BSc with three majors (Ichthyology, Mathematical Statistics and Zoology).

Educational Qualifications

Ph.D. Ichthyology	Rhodes University, Grahamstown	2013
M.Sc. (<i>cum laude</i>) Ichthyology	Rhodes University, Grahamstown	2005
B.Sc. (Hons) Ichthyology	Rhodes University, Grahamstown	2002
B.Sc. Ichthyology, Zoology, Mathematical Statistics	Rhodes University, Grahamstown	2001
Secondary education	Clarendon Girls High, East London	1998
Primary education	Stirling Primary, East London	1993

Experience

Associate Professor – DIFS, Rhodes University	(2023– present)
Senior Lecturer – DIFS, Rhodes University	(2019 – 2022)
Lecturer – DIFS, Rhodes University	(2014 – 2018)
Postdoctoral Fellow – SAIAB	(2013)
Organising committee of the 2 nd International Conference on Fish Telemetry	
Contracted Research Assistant – SAIAB	(2007)
Contracted Research Associate based in Angola – DIFS, Rhodes University	(2005 – 2006)

Professional services

Board member of the CSIR (Council for Scientific & Industrial Research)	(2019 – 2022)
SANCOR Steering Committee member (EC Representative)	(2020 – present)
Rhodes University Senate Committee	(2022 – present)

Lectureship

Fish Behavioural Ecology and Applied Ichthyology 6-week course – Ichthyology 201	(2018 - present)
Fish Diversity and Anatomy 6-week lecture course – Ichthyology 201	(2016 - present)
Zoology R course practical assessments – Ichthyology Honours	(2022)
Climate Change 1-week course – Ichthyology Honours	(2020)
Applied Ichthyology 1-week lecture course – Ichthyology 202	(2016 - 2018)
Fish Life History 6-week lecture course - Ichthyology 202	(2014)
Course co-ordinator Ichthyology 201/202	(2019 - present)
Course co-ordinator Ichthyology 301	(2018)
Course co-ordinator Ichthyology 301	(2016)
Course co-ordinator Ichthyology 202	(2015)
Course co-ordinator Ichthyology 301/302	(2013)
External Examiner UKZN Fisheries Science Honours Course	(2021, 2022)
Natural Science Facilitator – RU Postgraduate writing retreat	(2022)
Nominated for Vice-chancellors teaching award	(2018)

Research Interests

My research is centred on improving our understanding of the biology, ecology, physiology, movement behaviour and habitat connectivity of estuarine and coastal fishes, with emphasis on the impacts of overfishing and climate change. For the past two decades, my research has focused on the movement ecology and habitat connectivity (using acoustic telemetry), and the role of critical nursery habitats for estuarine and coastal fishes. My research also focuses on the causes and consequences of fish behaviour at an individual, population and species level through pattern-based field and process-based laboratory research. I am also involved in the biological and social aspects of recreational fisheries to ultimately improve angler behaviour and fish health and survival. I have recently expanded my research interests into examining behavioural plasticity of fishes through investigating fisheries-induced evolution on fish physiology. This research involves understanding the proximate causes (mechanisms and processes e.g. physiology) and ultimate causes (ecological and evolutionary consequences) of fish behaviour to better understand anthropogenic impacts such as climate change and overexploitation. Please see <https://www.safisheriestecologyresearchlab.com/> for further details.

Student Supervision

Graduated students (7 PhD, 8 MSc and 13 BSc Honours)

PhD students

Cuen Muller, Rhodes University, PhD student	Graduated 2022
Matthew Farthing, Rhodes University, PhD student	Graduated 2022
Phakama Nodo, Rhodes University, PhD student	Graduated 2022
Victoria Erasmus, Rhodes University, PhD student	Graduated 2021
Edward Butler, Rhodes University, MSc student	Graduated 2020
Alex Winkler, Rhodes University, PhD student	Graduated 2019
Taryn Murray, Rhodes University, PhD student	Graduated 2018

MSc students

Ryan Foster, Rhodes University, MSc student	Graduated 2021
Sam Mannheim, Rhodes University, MSc student	Graduated 2021
Nicky Arkert, Rhodes University, MSc student	Graduated 2020
Mike Skeeles, Rhodes University, MSc student	Graduated 2020
Pule Mpopetsi, Rhodes University, MSc student	Graduated 2019
Mike Dames, Rhodes University, MSc student	Graduated 2018
Rachel Kramer, Rhodes University, MSc student	Graduated 2016
Phakama Nodo, Walter Sisulu University, MSc student	Graduated 2016

BSc Honours students

Olwethu Soko, Rhodes University, BSc Honours	<i>Graduating 2023</i>
Montagu du Toit, Rhodes University, BSc Honours	<i>Graduating 2023</i>
Christiaan Hempel	<i>Graduating 2023</i>
Bradley van Heerden, Rhodes University, BSc Honours	Graduated 2021
Caitlin Allison, Rhodes University, BSc Honours	Graduated 2020
Nonhle Mlotshwa, Rhodes University, BSc Honours	Graduated 2020
Xolani Nabane, Rhodes University, BSc Honours	Graduated 2020
Neil Hiestermann, Rhodes University, BSc Honours	Graduated 2020
Andrew Meiklejohn, Rhodes University, BSc Honours	Graduated 2020
Ryan Foster, Rhodes University, BSc Honours	Graduated 2019
Brett Pringle, Rhodes University, BSc Honours	Graduated 2019
Nicky Arkert, Rhodes University, BSc Honours	Graduated 2018
Samantha Mannheim, Rhodes University, BSc Honours	Graduated 2017
Shannon Wilsnagh, Rhodes University, BSc Honours	Graduated 2016

Nick van Wyk, Rhodes University, BSc Honours	Graduated 2016
Mike Dames, Rhodes University, BSc Honours	Graduated 2015
Nokuthula Daweti, Fort Hare University, BSc Honours	Graduated 2014

Current students (*n* = 11; 3 PhD, 5 MSc)

PhD students (*n* = 4)

Lauren Bailey, Rhodes University, PhD student	(submitted)
Melissa Pollard, Nelson Mandela University, PhD student	(2019– present)
Matthew Parkinson, Rhodes University, PhD student (part-time)	(submitted)
Bantony Ziko, Rhodes University, PhD student	(2021 – present)

MSc students (*n* = 5)

Caitlin Allison, Rhodes University, MSc student	(2022 – present)
Bradley van Heerden, Rhodes University, MSc student	(2022 – present)
Nonhle Mlotshwa, Rhodes University, MSc student	(2021 – present)
Xolani Nabani, Rhodes University, MSc student	(2021 – present)
Andrew Meikeljohn, Rhodes University, MSc student	(2021 – present)

BSc Honours students

Research outputs:

I have published 54 peer-reviewed scientific manuscripts in ISI-rated journals. I have a google scholar H-index of 17 (https://scholar.google.co.za/citations?user=l_dDLVQAAAAAJ&hl=en), and am currently a NRF Y-rated scientist. The total citations amount to 910, with my most cited paper amounting to 123 citations.

Peer-reviewed scientific publications in ISI-rated journals

1. Nodo P, **Childs A-R**, Pattrick P, James NC. 2022. The nursery function of shallow nearshore and estuarine benthic habitats for demersal fishes. *Estuarine, Coastal and Shelf Science*. 108168.
2. Allison C, Winkler AC, **Childs A-R**, Muller C, Potts WM. 2022. Can social media platforms be used to foster improved environmental behaviour in recreational fisheries? *Fisheries Research*.10644
3. Foster RM, **Childs A-R**, Mann BQ, Potts WM. 2022. Specialist spearfishers' ecological knowledge provides accurate information that improves the description of the reproduction of a data-deficient species, *Oplegnathus conwayi* in South Africa. *Fisheries Research* 257: 106513
4. James NC, **Childs A-R**, Kemp J, Wilsnagh S, Edworthy C. 2022. Turbidity influences the recruitment of *Argyrosomus japonicus* to estuarine nurseries. *Frontiers in Marine Science*. DOI 10.3389/fmars.2022.953607
5. Farthing MW, Mann-Lang JB, **Childs A-R**, Bova CS, Bower SD, Pinder AC, Ferter K, Winkler AC, Butler EC, Brownscombe JW, Danylchuk AJ, Potts WM. 2022. Assessment of fishing guide knowledge, attitudes, and behaviours in global recreational fisheries. *Fisheries Research* 255, 106453
<https://doi.org/10.1016/j.fishres.2022.106408>
6. Farthing MW, **Childs A-R**, Mann-Lang JB, Bova CS, Potts WM. 2022. Are recreational fishing guides role models for their clients? *Fisheries Research* 254, 106408. <https://doi.org/10.1016/j.fishres.2022.106408>
7. Butler EC, Arkert NK, **Childs A-R**, Pringle BA, Skeeles MR, Foster RM, Farthing MW, Winkler, AC, Potts WM. 2022. Incorporating estuarine-angler behaviour and delayed blood sampling into the rapid

assessment of catch-and release angling on the iconic dusky kob *Argyrosomus japonicus*. *Fisheries Research* 253,106364. <https://doi.org/10.1016/j.fishres.2022.106364>

8. Foster RM, **Childs A-R**, Mann BQ, Potts WM. 2022. Age and growth of the Cape knifejaw *Oplegnathus conwayi*, an endemic South African teleost. *African Zoology*. 1–11. <https://doi.org/10.1080/15627020.2022.2035254>
9. Bailey L, **Childs A-R**, James NC, Winkler AC, Potts WM. 2022. Links between behaviour and metabolic physiology in fishes in the Anthropocene. *Reviews in Fish Biology and Fisheries*. 1–25. <https://doi.org/10.1007/s11160-022-09701-2>
10. Butler EC, **Childs A-R**, Smith MKS, Foster RM, Potts WM. 2022. Spawning observations of *Pomadasys commersonnii* in the marine section of the Knysna Estuarine Bay, Western Cape, South Africa, *African Journal of Marine Science* 44: 101–106. <https://doi.org/10.2989/1814232X.2022.2042383>
11. Allison C, Muller C, **Childs A-R**, Froneman W, Bailey LA, Potts WM. 2021. When cooling is worse than warming: investigations into the thermal tolerance of an endemic reef fish. *African Journal of marine Science* 1-11.
12. Muller C, **Childs A-R**, James NC, Potts WM. 2021. Effects of Experimental Ocean Acidification on the Larval Morphology and Metabolism of a Temperate Sparid, *Chrysoblephus laticeps*. *Oceans*. 2: 26–40. <https://doi.org/10.3390/oceans2010002>
13. Butler EC, **Childs A-R**, Milner MV, Farthing MW, Duncan MI, Winkler AC, Potts WM. 2021. Do contemporary age-growth models overlook life-history complexities in protandrous fishes? A case study on the large protandrous polynemid, the giant African threadfin *Polydactylus quadrifilis*. *Fisheries Research*. 223. 105770. <https://doi.org/10.1016/j.fishres.2020.105770>
14. Butler EC, **Childs A-R**, Duncan MI, Potts WM. 2020. Understanding the effects of recreational catch-and-release angling on an increasingly important foreign fishing tourism species, the giant African threadfin *Polydactylus quadrifilis* (Cuvier). *Fisheries Management and Ecology*. 00: 1–12. DOI: 10.1111/fme.12451
15. Potts WM, Attwood C, Cowley PD, **Childs A-R**, Winkler AC, Duncan MI, Murray T, Mann B, Mann-Lang JB. 2020. Editorial overview: recommendations for the promotion of a resilient linefishery in the Anthropocene. *African Journal of Marine Science* 42(3): 255–267. DOI: 10.2989/1814232X.2020.1824738
16. Arkert NK, **Childs A-R**, Duncan MI, Farthing MW, Potts WM. 2020. Physiological stress response and recovery of an important estuarine fishery species, dusky kob *Argyrosomus japonicus*, after a simulated catch-and-release event. *African Journal of Marine Science*. 42(3): 339–345. 10.2989/1814232X.2020.1801505
17. Foster R, **Childs A-R**, Brooks M, Farthing MW, Butler EC, Potts WM. 2020. Quantifying the impacts of abrasion and bacterial transfer when fish are exposed to sand during a catch-and-release event. *African Journal of Marine Science*. 42(3): 307–314. 10.2989/1814232X.2020.1792982
18. Muller C, **Childs A-R**, Skeeles MR, Duncan MI, James NJ, van der Walt K, Potts WM. 2020. Implantation, orientation and validation of a commercially produced heart-rate logger for use in a Perciform teleost fish. *Conservation Physiology*. 8(01): coaa035; doi:10.1093/conphys/coaa035.
19. Butler EC, **Childs A-R**, Saayman A, Potts WM. 2020. Can fishing tourism contribute to conservation and sustainability via ecotourism? A case study of the fishery for giant African threadfin *Polydactylus quadrifilis* on the Kwanza Estuary, Angola. *Sustainability* 12(10), 4221. doi:10.3390/su12104221

20. Pringle BA, **Childs A-R**, Butler EC, Winkler AC, Duncan MI, Teta C, Potts WM. 2020. Time course of the physiological stress response in bronze bream *Pachymetopon grande* following a simulated catch-and-release angling event. *African Journal of Marine Science*. 42(3): 375–380. <https://doi.org/10.2989/1814232X.2020.1745278>
21. Winkler AC, Mannheim S, **Childs A-R**, Santos C, de Beer C, Potts WM. 2019. A snapshot dietary assessment of the Baía dos Tigres Cape Fur seal colony. *African Journal of Marine Science*, 41(4): 443–447. <https://doi.org/10.2989/1814232X.2019.1683069>
22. Potts WM, Jordan T, **Childs A-R**. 2019. Can long-term content analysis of print media be used to examine species composition, population demography and distributional range changes of recreational fishery species? *African Journal of Marine Science*, 41(3): 231–245. <https://doi.org/10.2989/1814232X.2019.1647285>
23. Maggs JQ, Cowley PD, Porter SN, **Childs A-R**. 2019. Should I stay or should I go? Intra-population variability in movement behaviour of wide-ranging and resident coastal fishes. *Marine Ecology Progress Series*, 619: 111–124. [10.3354/meps12953](https://doi.org/10.3354/meps12953)
24. Arkert N, **Childs A-R**, Parkinson MC, Winkler AC, Butler E, Mannheim S, Potts WM. 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.
25. Mannheim SL, **Childs A-R**, Butler EC, Winkler AC, Parkinson MC, Farthing M, Zweig T, McCord M, Drobniwska N, Potts WM. 2018. Working with, not against recreational anglers: Evaluating a pro-environmental behavioural strategy for improving the catch-and-release behaviour. *Fisheries Research*, 206: 44–56.
26. Potts WM, Winkler AC, Parkinson MC, Santos C, Sauer WS, **Childs A-R**. 2018. Comparing catch rate, conventional tagging and acoustic telemetry data for understanding the migration patterns of coastal fishes. *Canadian Journal of Fisheries and Aquatic Science*, 75: 2364–2374.
27. Murray TS, Cowley PD, Bennett RH, **Childs A-R**. 2018. Fish on the move: Connectivity of an estuary-dependent fishery species evaluated using a large-scale acoustic telemetry array. *Canadian Journal of Aquatic Sciences*, 75: 2038–2052.
28. Nodo P, James NC, **Childs A-R**, Nakin MDV. 2018. Response of demersal fish assemblages to an extreme flood event in a freshwater-deprived estuary in South Africa. *Marine and Freshwater Research*, 69: 253–266.
29. Butler EC, **Childs A-R**, Winkler AC, Milner MV, Potts WM. 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.
30. Bennett RH, Cowley PD, **Childs A-R**, Attwood CA, Swart L, Næsje TF. 2017. Movement patterns of an endangered fishery species *Lithognathus lithognathus* (Sparidae) and the role of no-take marine protected areas as a management tool. *African Journal of Marine Science*, 39(4): 475–489.
31. Cowley PD, Bennett RH, **Childs A-R**, Murray TS. 2017. Reflection on the first five years of South Africa's Acoustic Tracking Array Platform (ATAP): status, challenges and opportunities. *African Journal of Marine Science*, 39(4): 363–372.
32. Dames M, Cowley PD, **Childs A-R**, Bennett RH, Thorstad EB, Næsje TF. 2017. Estuarine and coastal connectivity of an estuary-dependent fishery species, *Pomadasys commersonnii*. *African Journal of Marine Science*, 39(1): 111–120.

33. Murray TS, Cowley PD, **Childs A-R**, Bennett RH. 2017. Philopatry and dispersal of juvenile leervis *Lichia amia* (Teleostei: Carangidae) tagged in a warm-temperate South African estuary. *African Journal of Marine Science*, 39(1): 59–68.
34. Nodo P, James NC, **Childs A-R**, Nakin MDV. 2017. The impact of river flooding and high flow on the demersal fish assemblages of the freshwater-dominated Great Fish Estuary, South Africa. *African Journal of Marine Science* 39(4): 491–502.
35. Grant G, Cowley PD, Bennett RH, **Childs A-R**, Whitfield AK. 2017. Influences of selected geophysical and environmental drivers on the movement patterns of *Rhabdosargus holubi* in a southern African estuary. *Environmental Biology of Fishes*, 100(10): 1265–1283.
36. Butler EC, Parkinson MC, **Childs A-R**, Potts WM. 2017. An assessment of the health and survival of fishes caught-and-released in high-energy surf zones during a South African competitive angling event. *Fisheries Research*, 195: 152–168.
37. Sirot C, Ferraton D, Panfili J, **Childs A-R**, Guilhaumon F, Darnaude A. 2017. Element R: An R package for reducing elemental data from LA-ICPMS analysis of biological calcified structures. *Methods in Ecology and Evolution*, 1–9.
38. Potts WM, Bealey RSJ, **Childs A-R**. 2016. Assessing trophic adaptability is critical for understanding the response of predatory fishes to climate change: a case study of *Pomatomus saltatrix* in a global hotspot. *African Journal of Marine Science*, 38(4): 539–547.
39. Maree BA, Cowley PD, Næsje TF, **Childs A-R**, Terörde A, Thorstad EB. 2016. Influence of prey abundance and abiotic factors on the long-term home range and movement dynamics of spotted grunter *Pomadasys commersonnii* in an intermittently open estuary. *African Journal of Marine Science*, 38(2): 171–180.
40. **Childs A-R**, Cowley PD, Naesje TF, Bennett RH. 2015. Habitat connectivity and intra-population structure of an estuary-dependent fishery species. *Marine Ecology Progress Series*, 537: 233–245.
41. Howell DH, Cowley PD, **Childs A-R**, Weyl OLF. 2015. Movement behaviour of largemouth bass *Micropterus salmoides* in Wriggleswade Dam, Eastern Cape, South Africa. *African Zoology*, 1–7.
42. Bennett RH, Cowley PD, **Childs A-R**, Næsje TF. 2015. Movement and residency of juvenile white steenbras *Lithognathus lithognathus* in a range of contrasting estuaries. *Estuarine, Coastal and Shelf Science*. 152: 100–108.
43. Cowley PD, **Childs A-R**, Bennett RH. 2013. The trouble with estuarine fisheries in temperate South Africa, illustrated by a case study on the Sundays Estuary. *African Journal of Marine Science*, 35(1): 117–128.
44. Naesje TF, Cowley PD, Disrud OL, **Childs A-R**, Thorstad EB. 2012 Riding the tide: estuarine movements of a sciaenid fish, *Argyrosomus japonicus*. *Marine Ecology Progress Series*, 460: 221–232.
45. Bennett RH, Cowley PD, **Childs A-R**, Whitfield AK. 2012. Area-use patterns and diel movements of white steenbras *Lithognathus lithognathus* in a temporarily open/closed South African estuary, inferred from acoustic telemetry and long-term seine-netting data. *African Journal of Marine Science*, 34(1): 81–91.
46. **Childs A-R**, Næsje TF, Cowley PD. 2011. Long-term effects of different sized surgically implanted acoustic transmitters on the sciaenid *Argyrosomus japonicus*: breaking the 2% tag-to-body mass rule. *Marine and Freshwater Research*, 62: 432–438.

47. Bennett RH, **Childs, A-R**, Cowley PD, Næsje TF, Thorstad EB, Økland F. 2011. First assessment of estuarine space use and home range of juvenile white steenbras, *Lithognathus lithognathus*. *African Zoology*, 46(1): 32–38.
48. Potts WM, **Childs A-R**, Sauer WHH, Duarte ADC. 2009. Characteristics and economic contribution of a developing recreational fishery in southern Angola. *Fisheries Management and Ecology*, 16: 14–20.
49. **Childs A-R**, Cowley PD, Næsje TF, Booth AJ, Potts WM, Thorstad EB, Økland F. 2008. Do environmental factors influence the movement of an estuarine fish? A case study using acoustic telemetry. *Estuarine, Coastal and Shelf Science*, 78: 227–236.
50. **Childs A-R**, Cowley PD, Næsje TF, Booth AJ, Potts WM, Thorstad EB, Økland F. 2008. Estuarine use by spotted grunter *Pomadasys commersonnii*, in a South African estuary, as determined by acoustic telemetry. *African Journal of Marine Science*, 30(1): 123–132.
51. **Childs A-R**, Cowley PD, Næsje TF, Booth AJ, Potts WM, Thorstad EB, Økland F. 2008. Home range of an estuarine-dependent fishery species *Pomadasys commersonnii* in a South African estuary. *Fisheries Management and Ecology*, 15: 441–448.
52. Potts WM, Sauer WHH, **Childs A-R**, Duarte ADC. 2008. Using baseline biological and ecological information to design a Traffic Light Pre-cautionary Management Framework for leerfish *Lichia amia* (Linnaeus 1758) in southern Angola. *African Journal of Marine Science*, 30(1): 113–121.
53. Cowley PD, Kerwath SE, **Childs A-R**, Thorstad EB, Økland F, Næsje TF. 2008. Estuarine habitat use in juvenile dusky kob *Argyrosomus japonicus* (Sciaenidae), with implications for management. *African Journal of Marine Science*, 30(2): 247–253.
54. Næsje TF, **Childs A-R**, Cowley PD, Potts WM, Thorstad EB, Økland F. 2007. Movements of undersized spotted grunter *Pomadasys commersonnii* in the Great Fish Estuary, South Africa: implications for fisheries management. *Hydrobiologia*, 582: 25–34.

Peer Review

I have reviewed and been asked to review manuscripts for several journals, including Comparative Biochemistry and Physiology, Part A, Journal of Fish Biology, Hydrobiologia, Marine Ecology Progress Series, Estuarine, Coastal and Shelf Science, Marine and Freshwater Research, PLOS ONE, Animal Biotelemetry, African Journal of Marine Science and African Journal of Aquatic Sciences.

Academic awards and funding

I have recently (2022) been awarded an NRF-funded Marine and Coastal Research Grant focusing on key research gaps in South Africa's marine shore-based fishery and am a co-investigator on another recently (2022) funded NRF Marine and Coastal Research grant focusing on Seascape Ecology. I have also been a co-investigator and/or collaborator for several successful research grants (i.e. NRF Y-rated support grant 2020, NRF-ACEP Grant 2021, 2018, 2013, NRF-Marine Science grant 2019, SA-Norway Bilateral Grants 2007 - 2014). During my student years, I was the recipient of the S₂A₃ Bronze Medal (National award for the best Masters in the Science Faculty) and have also received the SANCOR International Student Travel Award. I have received several scholarships through DAAD and the Rhodes University Atlantic Philanthropies Grant, sourced additional research funds through the student call of the SA-Norway Programme on Research co-operation to conduct research overseas, attended international conferences and have been awarded funds for telemetry equipment through VEMCO's student grant call. I have also been awarded the best student presentation at the South African Marine Science Symposium. While at school, I was Deputy Head Girl at Clarendon High School for Girls, learner member of the School's governing body, awarded Academic colours, the Old Girls' Guild Jubilee Award for maintaining a first-class average throughout the matric year and loyally and enthusiastically supporting the activities of the school,

the Golden Cycad award for work, sport, leadership and all-round contribution to the school and the Moira Fraser Good Fellowship Award.

Community Engagement

I have been involved in a Community Engagement Initiative between members of the recreational fisheries research group (DIFS) and the Rock and Surf Super Pro League (RASSPL) that was awarded the 2017 Rhodes University Vice Chancellor's Community Engagement award. This initiative involved engaged research (students and staff) with competitive recreational anglers to promote best angling practices and sustainability of coastal fishery species. I am tasked with promoting the engaged research component of this initiative and have recently raised funding to do this through a project funded by the Marine and Coastal NRF Grant (2022 – 2024). This collaborative project involves researchers from various institutions and stakeholders across the country, including the RASSPL angling community. In this project, RASSPL anglers will participate actively in data collection to promote sustainability of their resource and that of other important users who rely on the resource for their livelihood. Throughout my career, I have also given various public lectures to members of the angling community, young learners at the Grahamstown Science Festival and school excursions. I have also given talks at several scientific workshops, to an editor of the Financial Mail and to the minister of Higher Education. I have also been involved in the work-shadow programme and have hosted several young learners. I have been involved in coordinating the Science Festival and Science Faculty open Day activities for young learners for the past decade, representing both the South African Institute for Aquatic Biodiversity (SAIAB) and Department of Ichthyology and Fisheries Science (DIFS), Rhodes University. I have also presented to young learners at the Makhanda's Rotary Youth Leadership Awards (RYLA).