

Kerry Reid, PhD

Research Positions:

Research Assistant Professor (RAP) Division of Biodiversity and Ecology, Hong Kong University, Hong Kong, September 2021 – present.

Postdoctoral Associate Department of Ecology and Evolution, Stony Brook University, New York, September 2019 – June 2021.

Postdoctoral Associate Ecology and Evolutionary Biology Department, University of California, Santa Cruz, July 2016 – August 2019.

Education:

Doctor of Philosophy (PhD), Department of Genetics, University of Pretoria, South Africa, June 2011 – June 2016. Graduation date 01 September 2016.

Master of Science degree (MSc), Department of Genetics, University of Pretoria, South Africa, 2011.

Biological Sciences degree Honors, Biotechnology, University of Pretoria, South Africa, 2008.

Biological Sciences degree (BSc), Biotechnology, University of Pretoria, South Africa, 2007.

Publications:

13. Wasserman BA, **Reid K**, Arredondo OM, Osterback A, Kern CH, Kiernan JD, Palkovacs EP (2021). Extreme gape-limitation: Predator life history and prey ontogeny shape selection on threespine stickleback armor genotypes in estuaries. *Ecology of freshwater fishes*, 00, 1-9.

12. Kingman GAR, Vyas DN, Jones FC, Brady SD, Chen HI, **Reid K**, Milhaven M, Bertino TS, Aguirre WE, Heins DC, von Hippel FA, Park PJ, Kirch M, Absher DM, Myers RM, Di Palma F, Bell MA, Kingsley DM, Veeramah KR (2021). Predicting future from past: The genomic basis of recurrent and rapid stickleback evolution. *Science Advances*, 7, eabg5285.

11. **Reid K**, Bell MA, Veeramah KR (2021). Threespine stickleback: A model system for evolutionary genomics. *Annual Reviews of Human Genetics and Genomics*, 22, 357-383.

10. Contolini GM, **Reid K**, Palkovacs EP. (2020) Climate shapes population variation in dogwhelk predation on foundational mussels, *Oecologia*, 192, 553-564.

9. **Reid K**, Garza JC, Gephard S, Caccone A, Post D, Palkovacs EP. (2020) Restoration mediated secondary contact leads to introgression of alewife ecotypes separated by a colonial-era dam, *Evolutionary Applications*, 13, 652-664.
8. Greeff JM*, **Reid K***, Mitha J, Clift S, De Waal P. (2018) Population genetic structure of the parasitic nematode *Spirocerca lupi* in South Africa, *Veterinary Parasitology*, 258, 64-69.
7. **Reid K**, Palkovacs E, Hasselman DJ, Baetscher D, Kibele J, Gahagan B, McBride M, Bentzen P, Garza JC. (2018) Comprehensive evaluation of genetic population structure for anadromous river herring with single nucleotide polymorphism data, *Fisheries Research*, 206, 247-258.
6. Baetscher DS, Hasselman DJ, **Reid K**, Palkovacs EP, Garza JC. (2017) Discovery and characterization of single nucleotide polymorphisms in two anadromous alosine fishes of conservation concern, *Ecology and Evolution*, 1-11 DOI: 10.1002/ece3.3215.
5. Bennett RH, **Reid K**, Gouws G, Bloomer P, Cowley PD. (2017) Genetic stock structure of white steenbras (*Lithognathus lithognathus*), an overexploited sparid endemic to South African waters, *African Journal of Marine Science*, 39, 27-41.
4. **Reid K**, Hoareau TB, Graves JE, Potts W, Dos Santos SMR, Klopper AW, Bloomer P. (2016) Secondary contact and asymmetrical gene flow in a cosmopolitan marine fish species across the Benguela upwelling zone, *Heredity*, 117, 307-315.
3. **Reid K**, Crochellet E, Bloomer P, Hoareau TB. (2016) Investigating the origin of vagrant dusky groupers, *Epinephelus marginatus*, in coastal waters of Réunion Island. *Molecular Phylogenetics and Evolution*, 103, 98-103.
2. **Reid K**, Mitha J, Greeff JM, De Waal P. (2015) Molecular genomics resource for the parasitic nematode *Spirocerca lupi*: Identification of 149 microsatellite loci using FIASCO and 454. *Molecular and Biochemical Parasitology*, 203, 1-4.
1. **Reid K**, Hoareau TB, Bloomer P (2012) High-throughput microsatellite marker development in two sparid species and verification of their transferability in the family Sparidae. *Molecular Ecology Resources*, 12, 740-752.

* Authors contributed equally

Submitted/in review/in revision:

1. Reid K, Hoey JA, Gahagan BI, Schondelmeier BP, Hasselman DJ, Bowden AA, Armstrong MP, Garza JC, Palkovacs EP. Spatial and temporal genetic stock composition of river herring bycatch in southern New England Atlantic herring and mackerel fisheries. (in revision) *ICES Journal of Marine Science*.

Research Grants:

5. National Natural Science Foundation of China (NSFC)/(RGC) Joint Scheme, 2021 – 2024, Sex chromosome evolution in *Pungitius* sticklebacks, **\$160000**, co-I, lead PI's Prof. Juha Merilä (HKU) and Prof. Baocheng Guo (IOZ, CAS).
4. Arctic-Yukon-Kuskokwim-Sustainable Salmon Initiative (AYK-SSI), 2019 - 2021, Genomics of maturation age in Yukon Chinook, **\$255988**. Co-wrote with lead PI Eric Palkovacs and co-PI Peter Westley.
3. Genomics Research Institute (GRI), RAD-seq *P. saltatrix*, 2016, **\$6200**, Co-PI.
2. Western Indian Ocean Marine Science Association grant (WIOMSA MARGI), *Epinephelus* marker discovery, 2015, **\$6000**, PI.
1. International Foundation of Science, Comparative genetics of East Atlantic fishes, 2012-2015, **\$12000**, PI.

Scholarships:

5. EVOP2017 (University of Leipzig), Accommodation/course participation, 2017, **\$1800**
4. WIOMSA symposium, Accommodation, 2015, **\$350**
3. WIOMSA MARGIII, Travel grant to Crete, Greece, May 2014, **\$950**
2. WIOMSA symposium, Accommodation, October 2013, **\$390**
1. University of Pretoria PhD Fellowship 2011 – 2015, **\$20000**

Awards:

2. American Fisheries Society Genetics Section: **Early Career Fisheries Genetics Award**, 2020, USA.
1. **Best student speaker**, Western Indian Ocean Marine Science Symposium (WIOMSA), 2013, Mozambique.

Society memberships:

American Genetics Association (AGA), American Fisheries Society (AFS)

Student Supervision and Mentoring:

MSc/PhD

Miss Janishtha Mitha, MSc (Distinction), UP, Co-supervisor, 2012-2014

Mr Matthew Marano, MSc, SBU, Mentor, 2019 - 2020

Mr Alexander Kwakye, SBU, Mentor, PhD student, 2020 – present

Honors (South Africa)/Senior thesis (USA)

Miss Miekie Haasbroek, BSc (Hons), UP, Co-supervisor, 2011

Miss Bronwynne Strybos, BSc (Hons, Distinction), UP, Co-supervisor, 2014

Miss Caitlin Hübsch, BSc (Hons), UP, Co-supervisor, 2016

Miss Brigid Moran, Senior thesis project, UCSC, Mentor, 2017

Undergraduate training:

Miss Cornell Cortenhoven, Mentorship program UP, Mentor, 2009

Miss Galaletsang Motlabedi, Mentorship program UP, Mentor, 2011

Miss Lurrisa Roos, Mentorship program UP, Mentor, 2013

Miss Masethabela Maphatsoe, DST/NRF intern, UP, Mentor, 2014

Miss Malehlogonolo Makua, DST/NRF intern, UP, Mentor, 2015

Mr Sydney Gambushe, DST/NRF intern, UP, Mentor, 2016

Mr Guancheng (Peter) Zeng, SBU, Mentor, 2019 - 2020

Mr Abu Nafi, SBU, Mentor, 2019 - 2020

Mr Jared Mallozi, SBU, Mentor, 2019

Miss Alexandra Hernandez, SBU, Mentor, 2019 - 2021

Miss Jacqueline Ryan, SBU, Mentor, 2019 – 2021

Miss Sarah Vaccaro, SBU, Mentor, 2020 - 2021

Mr Arda Artes, SBU, Mentor, 2021

Miss Natalie Dzikowski, SBU, Mentor, 2021

Miss Hannah Oliver, SBU, Mentor, 2021

*UP – University of Pretoria, UCSC – University of California (Santa Cruz), SBU – Stony Brook University

Teaching and Research:

TA: GTS 363 Evolutionary and Phylogenetics	2009-2013
TA: GTS 353 Advanced Population Genetics	2010-2012
TA: GTS 161 Introduction to Genetics	2008
Research Assistant – Prof. P. Bloomer	2014
Presenter: Microsatellite workshop (2 workshops a year)	2012-2015
Coordinator and presenter microhaplotype workshop	2019

Recent Conference Presentations:

4. **Reid K**, Garza JG, Post DM, Littrell K, MacDonald A, Gephard S, Palkovacs EP. Applying a next-generation sequencing approach to monitor a restoration project leading to introgression of alewife ecotypes. 150th American Fisheries Society Conference 14th September – 25th September 2020, Baltimore (Online due to covid).

3. **Reid K**, Garza JG, Post DM, Caccone A, Gephard S, Palkovacs EP (2019) Restoration-mediated secondary contact leads to introgression of alewife ecotypes separated by a colonial era dam. 149th American Fisheries Society Conference 29th September – 5th October 2019, Reno, Nevada.

2. **Reid K**, Palkovacs EP, Gahagan B, Garza JC (2018) River Herring Population Genetic Structure and Genetic Stock Identification of Bycatch. 148th American Fisheries Society Conference 19th - 23rd August 2018, Atlantic City, New Jersey.

1. **Reid K**, Garza JG, Post DM, Gephard S, Palkovacs EP (2018) Determining the Effects of Landlocked Alewives on Anadromous Alewife Restoration. 148th American Fisheries Society Conference 19th - 23rd August 2018, Atlantic City, New Jersey.

(11 additional oral presentations, 17 poster presentations)

Guest speaker:

3. Choosing the right postdoc for you: A Q&A panel on how to find a postdoc position that suits your long-term goals, 22 September 2020. Stony Brook University.
2. Career development plan leader – PCLP. September – December 2020. Stony Brook University.
1. Population genomics and conservation management applications of microhaplotypes in fisheries Science, Microhaplotype workshop, April 15th, 2019, Yale University.

Further Education:

4. Evop2017: Programming for evolutionary biologists 4th – 21st March 2017, University of Leipzig, Germany
3. ConGen2015: 7th ConGen- Population Genomic Data Analysis Course: Recent Application of Next Gen Sequence Data to Understand Genetic Population Structure and Detect Natural Selection, 31st August – 5th September 2015, Flathead Lake Biological Station, Montana, USA.
2. COME2014: 6th EMBO Practical Course on Computational Molecular Evolution (COME2014), 5th - 14th May 2014, Heraklion, Greece.
1. QECG2012: Quantitative Evolutionary and Comparative Genomics workshop, Genomic responses to Selection 3rd -18th August 2012, Okinawa, Japan.