

 Erica S. Nielsen

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Personal Qualifications

- Problem solving and multi-tasking skills
- Experienced in public speaking
- Independent and resourceful
- Time management and organization

Work Experience

Lab Technician, Okinawa Institute of Science and Technology, July 2017 - Oct 2017

- Assisted with sampling and culturing of the tunicate, *Oikopleura dioica*
- Worked in the wet lab assisting with RNA amplification and cell counts

Biology Tutor, Stellenbosch University, July 2015 - Oct 2016

- Designed tutoring exercises and practicals for first year biology students
- Tutored a class of roughly 25 students on introductory biology subjects

Research Assistant, University of California Santa Cruz, Sept 2013- Jan 2014

- Recorded the ppm and micrograms of carbon in seawater samples to study the effects of ocean acidification on krill survivorship

Education

MSc in Zoology - Jan 2015 to March 2015 - Stellenbosch University

BSc in Biology - Sept 2010 to March 2014 - University of California Santa Cruz

Technical Skillset

- ArcGIS/QGIS
- Bioinformatics
- R programming
- DNA extraction and amplification

Peer Reviewed Publications

Nielsen, E.S., Henriques, R., Toonen, R.J., Knapp, I., Guo, B., von der Heyden, S. 2018. Complex signatures of genomic variation of two non-model marine species in a homogeneous environment. *BMC Genomics*.19: 347.

Nielsen, E., Henriques, R., Beger, M., Selkoe, K., von der Heyden, S. 2017. Multi-species genetic objectives in spatial conservation planning. *Conservation Biology*. 31: 872-882.

Henriques, R., Nielsen, E.S., Durholtz, D., Japp, D. and von der Heyden, S. 2017. Genetic population sub-structuring of kingklip (*Genypterus capensis*-Ophidiidae), a commercially exploited demersal fish off South Africa. *Fisheries Research*, 187: 86-95.

Paranjpe, D.A., Medina, D., Nielsen, E., Cooper, R.D., Paranjpe, S.A. and Sinervo, B. 2014. Does thermal ecology influence dynamics of side-blotched lizards and their micro-parasites? *Integrative and comparative biology*, 54: 108-117.

Publications in Prep or Review (manuscripts available on request)

Nielsen, E.S., Beger, M., Henriques, R., von der Heyden S. Mitochondrial DNA and genomic SNP data resolve similar patterns of evolutionary potential for multi-species datasets. (in prep)

Awards and Grants

Conservation Biology Rising Star Award April 2018

NRF Grantholder Scholarship (R 60,000) Jan 2018

NRF Freestanding Masters Scholarship (R 80,000) Dec 2015

Conferences & Workshops

Attended and provided technical support for the conservation planning section of the Diversity of the Indo-Pacific Network (DIPnet) workshop titled "Applied Population Genetics and Marine Conservation in South Africa", held at Stellenbosch University, 2017.