

Tyler James (T.J.) Clark

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EDUCATION

Ph.D. Candidate in Wildlife Biology, University of Montana, 2017-2021 (expected completion)

Thesis: “Predators, prey, and their population dynamics”.

Advisors: Dr. Mark Hebblewhite and Dr. Angela Luis

MRes in Ecology, with Distinction, University of Glasgow, 2016-2017

Thesis: “Estimating the population size, habitat preferences, and distribution of Sooty Shearwaters (*Ardenna grisea*) in the Falkland Islands”.

Advisors: Prof. Jason Matthiopoulos and Dr. Ewan Wakefield

B.A. in Neuroscience and Zoology, Summa Cum Laude, Ohio Wesleyan University, 2011-2015

FELLOWSHIPS & SCHOLARSHIPS

NSF Graduate Research Fellowship Program (GRFP), April 2018; \$138,000

Neel Academic Scholarship, Chi Phi Fraternity Educational Trust, July 2014; \$2,500

Schubert Academic Scholarship, Ohio Wesleyan University, August 2011; \$140,000

ACADEMIC PUBLICATIONS

In Review, Revision, & Press

(10) Pearson DE, **Clark TJ**, Hahn PG (2020) Evaluating unintended consequences of intentional species introductions and eradications for improved conservation management. Conservation Biology [in review].

(9) Bonnet-Lebrun AS, Catry P, **Clark TJ**, Campioni L, Kuepfer A, Tierny M, Kilbride E, Wakefield E (2020) Habitat preferences, foraging behavior and bycatch risk among chick-provisioning sooty shearwaters *Ardenna grisea* in the Southwest Atlantic. Marine Ecology Progress Series [in revision].

(8) **Clark TJ**, Hebblewhite M, Luis AD, Horne JS (2020) Stochastic predation exposes prey to predator pits and local extinction. Oikos [in revision].

(7) **Clark TJ**, Hebblewhite M (2020) Predator control is unlikely to increase ungulate populations: a formal meta-analysis. Journal of Applied Ecology [in revision].

Published

(6) **Clark TJ**, Luis AD (2019) Nonlinear population dynamics are ubiquitous in animals. Nature Ecology & Evolution.

(5) Catry P, **Clark TJ**, Crofts S, Stanworth A, Wakefield E (2019) Long-term change and constancy in marine and coastal bird numbers on Kidney Island (Falkland Islands): a comparison of surveys over half a century apart. Polar Biology.

(4) **Clark TJ**, Matthiopoulos J, Bonnet-Lebrun AS, Campioni L, Catry P, Marengo I, Poncet S, Wakefield E (2019) Integrating habitat and partial survey data to estimate the regional population of a globally declining seabird species, the sooty shearwater. Global Ecology & Conservation 17: e00554.

(3) **Clark TJ**, Bonnet-Lebrun AS, Campioni L, Catry P, Wakefield E (2018) The depth of Sooty Shearwater *Ardenna grisea* burrows varies with habitat and increases with competition for space. Ibis 161: 192-197.

(2) Stewart RA, **Clark TJ**, Shelton J, Stringfellow M, Scott C, White SA, McCafferty DJ (2017) Urban grasslands support threatened water voles. Journal of Urban Ecology 3(1).

(1) Levri EP, **Clark TJ** (2015) Behavior in invasive New Zealand mud snails (*Potamopyrgus antipodarum*) is related to source population. Biological Invasions 17(1):497-506.

REPORTS AND NON-ACADEMIC PUBLICATIONS

(4) **Clark TJ**, Vick B, Marengo I, Wakefield ED (2019) The impact of the invasive Patagonian grey fox on the native and farmed fauna of Weddell Island. *Report to the Falkland Islands Government*.

(3) Catry P, Wakefield ED, Stokes A, Guest A, Boldenow M, **Clark TJ** (2018) A baseline survey of burrowing seabirds on Bird Island, West Falklands. *Report to the Falkland Islands Government*.

(2) Wakefield ED, Clark TJ, Matthiopoulos J, Bonnet-Lebrun A-S, Campioni L, Catry P (2017) The population size and fine-scale foraging distribution of Kidney Island Sooty Shearwaters – a baseline study. *Report to the Falkland Islands Government*.

(1) Clark TJ, Wakefield ED (2017) Shearwater phenomenon attracts visitors and poses questions for scientists. *Penguin News, the Falkland Islands newspaper*.

PRESENTATIONS

(8) Gordon Research Conference – Predator-prey interactions; 2020

Presentation Title: “Stochastic predation exposes prey to predator pits and local extinction”

(7) World Seabird Twitter Conference; 2018

Presentation Title: “Fine-scale foraging distribution and exposure to by-catch risk of Sooty Shearwaters in the Falkland Islands”

(6) British Ornithologists’ Union (BOU) Twitter Conference; 2017

Presentation Title: “Estimating the population size and habitat preferences of Sooty Shearwaters in the Falkland Islands”

(5) Montana Chapter of the Society for Conservation Biology Research Symposium, University of Montana, Missoula MT, U.S.A.; 2017

Presentation Title: “Using breeding habitat to estimate the population size of Sooty Shearwaters”

(4) Scottish Ecology, Environment, & Conservation Conference, University of Aberdeen, Aberdeen, U.K.; 2017

Poster Title: “Estimating the population size and burrow distribution of Sooty Shearwaters in the Falkland Islands”

Award: 2nd place

(3) Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience, Wabash College, Crawfordsville IN, U.S.A.; 2015

Poster Title: “Treatment of compression spinal cord injury in guinea pigs using Methylprednisolone and 6-Chlorotryptophan”

(2) Great Lakes Colleges Association Symposium, Kenyon College, Gambier OH, U.S.A.; 2014

Presentation Title: “Treatment of compression spinal cord injury in guinea pigs using Methylprednisolone and 6-Chlorotryptophan”

(1) Summer Science Research Symposium, Ohio Wesleyan University, Delaware OH, U.S.A.; 2012

Poster Title: “Effect of genotype on geotactic and photokinetic behaviors in an invasive freshwater snail”

TEACHING EXPERIENCE

(3) WILD 241 – Rewilding Animal Populations, Primary Lecturer (2 credits), Spring 2020

I proposed, developed, and conducted a course on rewilding and conservation science from an interdisciplinary perspective – covering biological, ethical, political, and social themes.

(2) WILD 240 – Biostatistics, Guest Lecturer (1 class)

Class title: Descriptive Statistics and Confidence Intervals

(1) WILD 541 – Research Design, Guest Lab Assistant (1 class)

Lab title: Power Analyses

STUDENT ADVISING EXPERIENCE

(2) Co-advised Bugge Vick, MRes graduate at the Institute of Biodiversity, Animal Health, and Comparative Medicine, University of Glasgow

Thesis: “The diet, distribution, and population size of the introduced South American grey fox (*Lycalopex griseus*) in the Falkland Islands and its potential role as an ecological replacement for the extinct Falkland Islands wolf (*Dusicyon australis*)”

(1) Student-Mentor Event at the University of Montana; May 2018

Developed mentoring skills and provided graduate school and application advice to undergraduates

GRANTS

NERC (U.K.) Life Sciences Mass Spectrometry Facility, December 2018, \$8500

Environmental Studies Budget, Falkland Islands Government, Sept 2018; \$4300

DISTINCTIONS

MRes Ecology and Environmental Biology Student Award, Institute of Biodiversity, Animal Health, and Comparative Medicine University of Glasgow, September 2017

Phi Beta Kappa, National Liberal Arts Society, May 2015

George Barnes Harris Award for Academic Excellence, Department of Zoology, Ohio Wesleyan University, April 2015

Order of Omega, National Greek Leadership Honors Society, October 2014

Goldwater Scholarship Nominee, Ohio Wesleyan University, March 2014

PROFESSIONAL SERVICE

Peer Reviews: Ecology and Evolution (2018), Population Ecology (2018), Scientific Reports (2019), Conservation Biology (2019)

PROFESSIONAL MEMBERSHIPS

British Ecological Society

Society for Conservation Biology, Montana Chapter

The Seabird Group

The Wildlife Society, Idaho Chapter
