Tyler James (T.J.) Clark

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EDUCATION

Ph.D. in Wildlife Biology, University of Montana, 2017 – 2021
Thesis: "Large Carnivore Recolonization Reshapes Population and Community Dynamics in the Rocky Mountains: Implications for Harvest Management".
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 Zoology and Neuroscience, Summa Cum Laude, Ohio Wesleyan University, 2011-2015

PROFESSIONAL APPOINTMENTS

Postdoctoral Scholar, Center for Ecosystem Sentinels, University of Washington, 2021-

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

(12) Clark TJ, Vick B, Newton J, Marengo I, Wakefield E (2021) A wolf in fox's clothing? Using stable isotopes to quantify ecological replacement. Conservation Letters.

(11) Stokes A, Catry P, Matthiopoulos J, Boldenow M, **Clark TJ**, Guest A, Marengo I, Wakefield E (2021) Combining survey and remotely sensed environmental data to estimate the habitat associations, abundance and distribution of breeding thin-billed prions *Pachyptila belcheri* and Wilson's storm-petrels *Oceanites oceanicus*. Polar Biology.

(10) Pearson DE, **Clark TJ**, Hahn PG (2021) Evaluating unintended consequences of intentional species introductions and eradications for improved conservation management. Conservation Biology.

(9) Clark TJ, Hebblewhite M (2020) Predator control may not increase ungulate populations in the future: a formal meta-analysis. Journal of Applied Ecology.

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

(7) 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.

(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

(6) The Wildlife Society Annual Conference; Sept 2020; invited speaker;
Presentation Title: "Predator control is unlikely to increase ungulate populations"
(5) Gordon Research Conference – Predator-prey interactions; 2020;
Poster Title: "Stochastic predation exposes prey to predator pits and local extinction"
(4) World Seabird Twitter Conference; 2018; Poster Title: "Fine-scale foraging distribution and exposure to by-catch risk of Sooty Shearwaters in the Falkland Islands"
(3) British Ornithologists' Union (BOU) Twitter Conference; 2017;

Poster Title: "Estimating the population size and habitat preferences of Sooty Shearwaters in the Falkland Islands"
(2) Montana Chapter of the Society for Conservation Biology Research Symposium; 2017;
Presentation Title: "Using breeding habitat to estimate the population size of Sooty Shearwaters"
(1) Scottish Ecology, Environment, & Conservation Conference, 2017;
Poster Title: "Estimating the population size and burrow distribution of Sooty Shearwaters in the Falkland Islands"; Award: 2nd place.

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 (2 classes).
Class titles: Descriptive Statistics and Confidence Intervals; Introduction to Meta-Analysis
(1) WILD 541 – Research Design, Guest Lecturer (1 class)
Lab title: Power Analyses

STUDENT ADVISING EXPERIENCE

(3) Primary advisor, Jack St. John, Honors Thesis in Wildlife Biology, University of Montana; 2021
Thesis title: "Cyclic population dynamics in caribou across the world".
(2) Co-advisor, Bugge Vick, MRes in Ecology, University of Glasgow; Spring 2019.
Thesis title: "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, University of Montana; May 2018, 2019.
Developed mentoring skills and provided graduate school 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

PROFESSIONAL SERVICE

Peer Reviews: Ecology and Evolution (2018), Population Ecology (2018), Scientific Reports (2019, 2020), Conservation Biology (2019, 2020)
Memberships: Society for Conservation Biology, Montana Chapter; The Wildlife Society, Idaho Chapter.