

# Justine Atkins

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## EDUCATION

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**PhD. candidate**, Department of Ecology & Evolutionary Biology, Princeton University, 2015-present  
Advisor: Ass. Prof. Corina Tarnita

**BSc (Hons)** with First Class Honors in Biological Sciences, University of Auckland, 2014  
Thesis: Intrinsic influences on dispersal success in fragmented landscapes: a spatially explicit individual-based simulation  
Advisors: Dr. Todd Dennis & Prof. George Perry

**BA/BSc** conjoint degree, University of Auckland, majoring in History and Biological Sciences, 2013

## PROFESSIONAL TRAINING

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**AniMove: Animal Movement Analysis for Conservation**, Max Planck Institute for Ornithology, Germany, 2016

- Learned interdisciplinary approaches linking animal movement with environmental factors
- Acquired skills in computational ecology, movement data pre-processing and analysis, modeling, remote sensing and Geographic Information Systems (GIS)

## RELEVANT RESEARCH AND PROFESSIONAL EXPERIENCE

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**PhD Student**, Department of Ecology and Evolutionary Biology, 2015 – present  
*Princeton University, Princeton, NJ*

- Thesis research on the interaction of animal movement behavior and spatial and temporal heterogeneity
- Field work in Mozambique's Gorongosa National Park

### Assistant Instructor

*Princeton University, Princeton, NJ*

- EEB 321 Ecology: Species interactions, biodiversity, and society – September 2017 – January 2018
- EEB 346 Biology of Coral Reefs, March – April 2016
- EEB 211 Life on Earth: Chaos and Clockwork of Biological Design, September 2015 – January 2016

### Intern Supervisor

*Princeton Environmental Institute, Princeton University, Princeton, NJ*

- Interviewed, hired and supervised an intern for field work in Gorongosa National Park, Mozambique, on the project "The spatial ecology of African savanna herbivores in the absence of predation" – June – August 2017

### Research Assistant

*Wildlife Management International, Great Barrier Island, NZ, January 2013*

- Assistant for summer 2013 in a long-term population study of black petrels for conservation purposes
- Skills: Animal handling, species identification, data collection, recording and processing

### Teaching Assistant

*University of Auckland, Auckland, NZ, Feb 2013 – July 2014*

- BIOSCI 107 Biology for Biomedical Science
- BIOSCI 104 New Zealand Ecology and Conservation

## AWARDS, FELLOWSHIPS, AND RESEARCH FUNDING

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**Young Explorers Grant**, National Geographic, 2017

**Student Research Grant**, Animal Behavior Society, 2017

**Women in Conservation Science Award** in the Department of Ecology and Evolutionary Biology, Princeton University, 2016

**May Fellowship in the Department of Ecology and Evolutionary Biology**, Princeton University, 2015 – 2016

**First Year Fellowship in Science and Engineering**, Princeton University Graduate School and Department of Ecology and Evolutionary Biology, 2015-2016

**University of Auckland Masters/Honours/PGDip Scholarship**, University of Auckland, 2013

**Senior Scholar Award in the Faculty of Science**, University of Auckland, 2013

**The University of Auckland Scholarship**, University of Auckland, 2009 - 2011

## **PUBLICATIONS AND PRESENTATIONS**

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**Atkins, JL**, Long, RA., Pansu, J., Tarnita, CE., Pringle, RM. 2018. Life in a landscape of fearlessness: quantifying the cascading effects of large carnivore removal on prey species and their habitat. Gordon Research Conference – Predator Prey Interactions. Poster presentation.

**Atkins, JL**, Long, RA., Pringle, RM., Tarnita, CE. 2016. Modeling the drivers of large herbivore movement in a spatially patterned landscape. Student Conference on Conservation Science. Poster presentation.

**Atkins, JL**, Perry, GW., Dennis, TE. Manuscript in prep. The importance of context: landscape structure influences the outcome of trade-offs among intrinsic biological traits on dispersal success.

## **OUTREACH AND PROFESSIONAL ACTIVITIES**

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**Graduate student representative**, Department of Ecology and Evolutionary Biology, Princeton University, 2017 - present

**Volunteer Teacher for the Prison Teaching Initiative** at Princeton University. Co-instructor of BIO 113 Biological Concepts at Federal Correctional Institution, Fort Dix, NJ, 2017 – present

**Contributor to Highwire Earth**, an online publication on sustainable development run by graduate students, Princeton University, 2016 – present

**Volunteer for OpenLabs – Princeton branch**, a science outreach organization for education and mentoring of underprivileged & underrepresented students interested in pursuing scientific careers, 2016

**Volunteer for Forest and Bird New Zealand**, non-profit independent conservation organization for the protection of all NZ native species and wild places, 2014

## **CURRENT ORGANIZATIONS**

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**Animal Behavior Society**, Member

**Integrated Behavior Research Group (IBRG)**, Department of Ecology and Evolutionary Biology, Princeton University

**Ecology and Evolutionary Biology – Women in Science Partnership (EEB-WISP)**, Department of Ecology and Evolutionary Biology, Princeton University

**Women in STEM Leadership Council**, Princeton University

## **SKILLS**

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**Technical**

- Experience with field identification and surveying of flora and fauna
- Knowledge of standard biological and chemical laboratory techniques and statistical analysis
- Proficient in NetLogo modelling software
- Proficient in Behavioral Observation Research Interactive Software (BORIS)
- Intermediate in R
- Intermediate in ArcGIS and QGIS
- Beginner in QGIS, MATLAB and Mathematica
- Basic HTML skills
- Camera trap image database management

**Languages**

- Conversational French; willingness to learn new languages

**REFERENCE**

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**Asst. Prof. Corina Tarnita**, Department of Ecology and Evolutionary Biology, Princeton University