Lucas Pavan

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EDUCATION

Stanford University Ph.D. student in Biology Specializing in Ecology and Evolutionary Biology	Stanford, CA 2017 - present	
University of British Columbia B.Sc. in Biology with Honours in Ecology and Environmental Science Graduated with distinction	Vancouver, BC 2010 - 2015	
FELLOWSHIPS AND AWARDS		
Post-Graduate Scholarship – Doctoral • Natural Sciences and Engineering Research Council of Canada	2020	
Stanford Excellence in Teaching Award • Stanford University	2019	
 Stanford University Stanford University 	2018	
 Stanford University Stanford University 	2017	
GRANTS AND SCHOLARSHIPS		
Center for African Studies Field Research Grant	2021	
Stanford University Werner and Hildegard Hesse Award A Control of the Cont	2018	
American Ornithological Society Community Engagement Grant Control Marie Control Con	2018	
Stanford University NSERC Dean of Science Research Award W. D. J.	2013	
Wayqecha Biological Station – Manu National Park Northern Science Training Program Award National Park National Park	2012	
Kluane Lake Research Station – Arctic Institute of North America Alexander Rutherford Scholarship	2010	
 University of British Columbia President's Entrance Scholarship University of British Columbia 	2010	
Publications		

- Lily M, Amaya-Mejia W, **Pavan L**, Peng C, Crews A, Tran N, Sehgal R, Swei A. (2022) Local community composition drives avian Borrelia burgdorferi infection and tick infestation. *Veterinary Sciences*. 9 (2):55.
- Cosset C, Gilroy J, Tomassi S, Benedick S, Nelson L, Cannon P, Messina S, Kaputa M, Fandrem M, Madrid RS, Lello Smith A, **Pavan L**, King B, Fogliano R, Hackney T, Gerald E, Chai JY, Cros E, Chong YY, Tan CH, Chai RR, Cheoh CO, Edwards D. (2021) Impacts of tropical selective logging on local-scale movements of understory birds. *Biological Conservation*. 264:109374.
- **Pavan L**, Jankowski J, Hazlehurst J (2020) Patterns of territorial space use by Shining Sunbeams (*Aglaeactis cupripennis*), a tropical montane hummingbird. *Journal of Field Ornithology*. 91 (1): 1-12.

Cespedes L, **Pavan L**, Hazlehurst J, Jankowski J. (2019) The behavior and diet of the Shining Sunbeam (Aglaeactis cupripennis): A tropical high-elevation hummingbird. *The Wilson Journal of Ornithology*. 131 (1): 1-11.

MANUSCRIPTS SUBMITTED OR IN PREPARATION

Losapio G, Genes L, Knight C, McFadden T, **Pavan L**. Monitoring and modelling the effects of ecosystem engineers on ecosystem function. *In preparation*.

Pavan L, Kamta R, Dirzo R. The cascading effects of global mammal defaunation on bird communities. In preparation.

Pavan L, Dirzo R. Human biomass replaces wildlife along a hunting gradient in a Central African rainforest. *In preparation*.

PRESENTATIONS, POSTERS, AND CONFERENCES

!0th Annual Species Interaction Workshop	2019
 University of California Santa Cruz Wildlife Conservation Symposium 	2020
University of California Berkeley	2020
ATBC Annual Meeting	2021
 Association of Tropical Biology and Conservation 	
International Congress of Conservation Biology	2021
Society of Conservation Biology	

RESEARCH EXPERIENCE

Ph.D Dissertation - Stanford, California, USA

2017 - present

Lead Researcher – Dr. Rodolfo Dirzo – Stanford University

- Developed a dissertation examining the effect of defaunation in Central African rainforests
- Collaborated with the Congo Basin Institute and the International Institute of Tropical Agriculture
- Conducted three years of fieldwork in a remote part of Southern Cameroon the Dja Biosphere Reserve
- Handled all in-country logistics, training of 3-5 person team of Cameroonian field assistants

Bird Conservancy of the Rockies - Fort Collins, Colorado, USA

2017

Field Ornithologist - Nick Van Lanen - Bird Conservancy of the Rockies

- Performed avian point counts on communities of birds throughout Wyoming
- Handled all logistics and research planning for the course of the position
- Responsible for data management and early data analysis
- Extremely high degree of independence as most work was conducted in very remote regions

Borneo Rainforest Project – Danum Valley Research Center, Sabah, Malaysia

2016

Senior Field Ornithologist - Dr. Dave Edwards - Sheffield University

- Evaluated and monitored avian community recovery in a variably disturbed rainforest landscape
- Investigated avian movement and mortality differences in primary and secondary rainforest
- Extracted, banded, and gathered morphometric data on approximately 250 tropical birds
- Assumed leadership role and was responsible for training team members on bird handling techniques

Manu Bird Project - Manu National Park, Peru

2015 and 2013

Lead Researcher - Dr. Jill Jankowski - University of British Columbia

- Used radio telemetry to describe territorial microhabitat selection patterns of Andean hummingbirds
- Estimated plant gene movement using combination of fitness estimates and camera trapping
- Independently designed, conducted, analyzed, wrote, and published an Honours thesis
- Handled training and logistics planning as co-leader of a seven-person research team

Agriculture and Agri-Food Canada – LRDC, Lethbridge, AB, Canada

2014 and 2011

- Assistant Insect Ecologist Dr. Rob Bourchier Agriculture and Agri-Food Canada • Studied interactions between invasive plants and introduced beneficial arthropods in North America
- Examined controlled population collapse in terms of patch dynamics, insect efficacy, and potential risks
- Analyzed insect herbivory in the field as well as in a level 4 biocontainment facility
- Developed a program to estimate invasive plant density through colour analysis of aerial photographs

Arctic Institute of North America – Kluane National Park, YT, Canada

2012

Research Assistant - Dr. Charles Krebs - University of British Columbia

- Examined ecological determinants of population cycling in the boreal forest
- Live trapped, tagged, and telemetry tracked a variety of small mammal species
- Investigated cameras as non-invasive alternative to live trapping for density estimation
- Independently studied phenology of migrating boreal bird species using point count estimates

TEACHING EXPERIENCE

Biology 121 (Ornithology) – Stanford University, Palo Alto, CA, USA

Head Lecturer

• Designed and taught advanced level ornithology course for undergraduate and graduate students over four years

Biology 81 (Introduction to Ecology) - Stanford University, Palo Alto, CA, USA

Teaching Assistant

• First year undergraduate course introducing fundamental ecological concepts

Biology 33 (Ecology for Everyone) – Stanford University, Palo Alto, CA, USA

Teaching Assistant

• First year ecology course designed for non-biology undergraduates

Stanford SPLASH – Stanford University, Palo Alto, CA, USA

Designed high school course introducing students to basic bird biology

Stanford HyPE - Stanford University, Palo Alto, CA, USA

Teacher

• Taught a course introducing high school students from historically underrepresented backgrounds to basic ecological field methods

OTHER RELEVANT EXPERIENCE

Undergraduate Education Council – Stanford University, Palo Alto, CA, USA

Graduate Student Representative

• Elected position responsible for designing teaching workshops and developing undergraduate courses

Hilltown Land Trust – Northampton, MA, USA

Volunteer Consultant

• Worked with private landowners to develop conservation goals and conducted property surveys to formulate strategies to meet those goals

Dogwood Initiative - Vancouver, BC, Canada

General Organizer

• Participated in an organization identifying ecologically vulnerable areas throughout British Columbia and helped to coordinated efforts aimed at acquiring, preserving, and restoring those areas.