## Professional development grant final report

### Jorista van der Merwe

Project Title: Do habitat conditions and female health determine sex ratio of offspring in white-

tailed deer?

Activity: Attendance of: Ecological Society of America annual meeting in Portland, OR, Aug 5th

-11<sup>th</sup> 2017

Principle Investigator: Dr. Jorista van der Merwe

College: CNHS

Department: Biology

Amount that was requested/granted:	\$2,046.00
Amount that was used:	\$2,299.77
Amount used from Biology account:	\$ 253.77

#### **B.** Professional Enhancement opportunity

I applied for the Professional Development Grant as a means to acquire funds to attend the annual meeting of the Ecological Society of America (ESA), in Portland, OR (6-11 August 2017). The research that I presented is being done at Arkansas Tech University, in collaboration with the Arkansas Game and Fish Commission (AGFC) and deals with the factors that influence sex ratios in white-tailed deer offspring. Many factors are thought to influence the number of fetuses and the sex of the fetuses in white-tailed. I am investigating which factors show the greatest impact, some of which include habitat conditions, health of the female, and time of conception.

With the detection of chronic wasting disease (CWD) in white-tailed deer in Arkansas in early 2016, deer-related research has been on the increase. The analyses and presentation of the sex-ratio data will likely lead to more research opportunities and potentially research funds from AGFC to support research by faculty and student in the department.

#### **C. Review of Conference experience**

I attended the meeting and successfully presented the results of the work done in collaboration with AGFC (see attachment). My oral presentation was well attended and I received good questions and feedback afterwards.

#### **D.** Summary

As a result of this presentation, my main collaborator at AGFC already presented our results at an intra-agency meetings a few weeks ago. I was also made aware of future collaborations with AGFC that all sprung from this conference presentation. The conference enhanced professional networking and provided me with the opportunities to view other scientists at the top of their field, gather information and establish new contacts.



# COS 88 - Life History Theory And Evolution

	🛗 Wednesday, August 9, 2017: 8:00 AM-11:30 AM		
Start Browse by Day Author Index Meeting Information Meeting Website Meeting Registration ESA Website About Portland	E142, Oregon Convention Center		
	8:00 AM 1 COS 88- 1 Stochastic lens Jennifer McDonald, University of Exeter; Miguel Franco, University of Plymouth; Stuart Townley, University of Exeter; David J. Hodgson, University of Exeter, Cornwall Campus	:	
	8:20 AM Cancell 8:20 Concell		
	8:40 AM 3 Corticosterone prevents a paedomorphic life history strategy in the salamander Ambystoma talpoideum Jason R. Bohenek, The University of Mississippi; Christopher J. Leary, The University of Mississippi; William J. Resetarits Jr., The University of Mississippi		
	9:00 AM 4 The effect of nest type on shaping the initial avian microbiome Felipe Campos-Cerda, University of Oregon; Jorge H. Vega Rivera, Estación de Biología Chamela, Instituto de Biología, UNAM; Brendan J.M. Bohannan, University of Oregon		
	9:20 AM 5 Loggerhead sea turtle ontogenetic growth patterns deviate from theoretical predictions Matthew D. Ramirez, Oregon State University; Larisa Avens, NOAA NMFS; Jeffrey		

2017 ESA Annual Meeting (August 6 -- 11)

	2017 ESA An	nual Meeting (August 6 11)
		Seminoff, NOAA NMFS; Lisa R. Goshe, NOAA NMFS; Selina S. Heppell, Oregon State University
9:40 AM	COS 88-	Break
9:50 AM	COS 88- 6	The evolutionary stability of partial migration under different forms of density dependence Haley A Ohms, Oregon State University; Anushaya Mohapatra, Oakland University; David A. Lytle, Oregon State University; Patrick De Leenheer, Oregon State University
10:10 AM	COS 88- 7	Sons or daughters? The impacts of maternal health on fetal sex ratios of white-tailed deer <i>(Odocoileus virginianus</i> ) Jorista Van Der Merwe, Arkansas Tech University; Ralph Meeker, Arkansas Game and Fish Commission
10:30 AM Cancel	COS 88- l	Constructing a precise, continous measure of fitness in a long lived mammal Caroline Glidden, Oregon State University; Brianna Beechler, Oregon State University; Anna E. Jolles, Oregon State University
10:50 AM	COS 88- 9	On the latitudinal patterns of thermally varying life history traits in ectotherms Daniel J. Smith, University California Los Angeles; Priyanga Amarasekare, University of California, Los Angeles
11:10 AM	COS 88- 10	Costs of tolerance to pesticides in two wetland organisms, <i>Lithobates sylvaticus</i> and <i>Daphnia pulex</i> Devin G. DiGiacopo, Binghamton University; Jessica Hua, Binghamton University
		ibuted Talks n   Next Session >>

# Ecological Society of America

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