

# SHEENA L. FAHERTY, PH.D.

## *CURRICULUM VITAE*

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### E D U C A T I O N

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**Duke University**, Durham, North Carolina August 2010-March 2016

**Doctoral Program in Biology**

Advisor: Anne D. Yoder

*Dissertation title: Investigating the intrinsic & extrinsic drivers of primate heterothermy*

**University of Wisconsin-Stevens Point**, Stevens Point, WI 2003-2007

**Bachelor of Science, *cum laude***

Double Major: Biology & Psychology

Awarded December 2007

**University of Canterbury**, Christchurch, New Zealand January-May 2007

**Study Abroad Program**

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### R E S E A R C H E X P E R I E N C E

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**Graduate Research Assistant** August 2010-March 2016

Duke University, Department of Biology

Mentor: Anne D. Yoder

**Research Technician I** March 2008-July 2010

Medical College of Wisconsin, Department of Microbiology & Molecular Genetics

Mentor: Michael B. Dwinell

**Animal Behavior Research Assistant** August 2007-December 2007

University of Wisconsin-Stevens Point, Department of Biology

Mentor: Isabelle Girard

**Animal Learning and Cognition Research Assistant** August 2007-December 2007

University of Wisconsin-Stevens Point, Department of Psychology

Mentor: Jody Lewis

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### F U N D I N G A W A R D S

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**Duke University Biology Department Grant-In-Aid of Research (\$1,000)** October 2015

**National Science Foundation Doctoral Dissertation Improvement Grant (\$23,034)** November 2014

<b>Duke University Biology Department Grant-In-Aid of Research (\$1,000)</b>	May 2014
<b>American Philosophical Society Lewis &amp; Clark Fund (\$5,000)</b>	July 2013
<b>Duke University Graduate School Conference Travel Award (\$700)</b>	May 2013
<b>Mazuri Exotic Animal Nutrition Grant (\$6,679)</b>	October 2012
<b>Duke University Sigma Xi Sally Hughes-Schrader Travel Award (\$1,250)</b>	June 2012
<b>Duke University Sigma Xi Mini-Grant (\$250)</b>	June 2012
<b>Duke University Biology Department Grant-In-Aid of Research (\$1,000)</b>	May 2012
<b>American Society of Mammalogists Grant-In-Aid of Research (\$1,500)</b>	May 2012
<b>Sigma Xi Grant-In-Aid of Research (\$400)</b>	April 2012
<b>International Primatological Society Research Grant (\$1,500)</b>	March 2012
<b>Duke Lemur Center Director's Fund (\$500)</b>	March 2012
<b>International Hibernation Symposium Student Travel Award (\$1,062)</b>	February 2012
<b>Society of Integrative and Comparative Biology Grant-In-Aid of Research (\$960)</b>	January 2012
<b>Duke University Pre-Dissertation Travel Award (\$1,500)</b>	December 2011

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**F E L L O W S H I P S   &   H O N O R S**

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<b>Katherine Goodman Stern Dissertation Year Fellowship</b>	August 2015-May 2016
<b>AAAS Mass Media Fellowship, <i>The Philadelphia Inquirer</i></b>	Summer 2015
<b>American Philosophical Society Lewis &amp; Clark Field Scholar</b>	July 2013
<b>Ray J. Tysor Summer Graduate Fellowship</b>	June-August 2013
<b>Duke University Graduate Fellowship</b>	2010-2016
<b>PSI CHI, Psychology Honor Society (UWSP Chapter)</b>	2007-Present
<b>Dean's Distinguished Achievement Award, University of Wisconsin-Stevens Point</b>	December 2007
<b>Dean's List, University of Wisconsin-Stevens Point</b>	2004-2007

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**L E A D E R S H I P   &   O U T R E A C H   E X P E R I E N C E**

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<b>Organizing Committee Member, ComSciCon-Triangle 2015</b>	2014-2015
<b>Invited Guest Speaker, North Carolina Governor's School, Winston-Salem, NC</b>	2014
<b>Science Presenter, North Carolina DNA Day 5K and Science Festival, University of North Carolina-Chapel Hill</b>	2013
<b>Reviewer, Duke University Sigma Xi Sally Hughes-Schrader Travel Award</b>	2013
<b>Treasurer &amp; Committee Member, Women in Science and Engineering, Duke University</b>	2012-2016
<b>Science Instructor, Summer Science Sleuths Camp, Duke University</b>	2012-2014
<b>Outreach Scientist, "Meet a Scientist" Program, North Carolina Museum of Life and Science</b>	2012
<b>Science Coach, Building Opportunities &amp; Overtures in Science and Technology (BOOST) Program, Durham, NC</b>	2011-2012
<b>Presenter, Riverside High School AP Biology Field Trip</b>	2011-2012
<b>Homework Help Volunteer, El Kilombo Intergaláctico, Durham, NC</b>	2011
<b>Committee Member, Recruitment Planning Committee, Biology Department, Duke University</b>	2010-2011
<b>Mentor, Females Excelling More in Mathematics, Engineering, &amp; Science (FEMMES)</b>	2010-2011
<b>Committee Member, Women in Science, Biology Department, Duke University</b>	2010-2011
<b>ESL Tutor, English Language Outreach Program</b>	2010

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**S C I E N C E   W R I T I N G   &   M A S S   M E D I A   T R A I N I N G**

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<b>Science Writer-Editor, National Human Genome Research Institute, Bethesda, MD</b>	April 2016-Present
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<b>First Runner-Up</b> , Richard Merritt Science Journalism Award, Duke University	March 2015
<b>Intern</b> , Duke University Medial Center News & Communications Office	October 2014-June 2015
<b>Contributor</b> , Duke Medicine Blog, Duke University, Durham, NC	October 2014-June 2015
<b>Contributor</b> , <i>Scientific American</i> Blog Network	2014-Present
<b>Winner</b> , The Briefing Tech Writing Challenge	February 2014
Article: “Unlocking the genetic code of human hibernation”	
<b>Author</b> , <i>Musings of a Jungle Queen</i> Blog	June 2013-June 2015
<b>Contributor</b> , Duke Research Blog, Duke University, Durham, NC	December 2013-June 2015
<b>First Runner-Up</b> , National Evolutionary Synthesis Center Blog Contest	December 2013
Article: “Rule-breakers aid in quest for mysterious fountain of youth”	

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T E A C H I N G   E X P E R I E N C E

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<b>Teaching Assistant and Lab Instructor</b> , Duke University, Department of Biology	Spring 2015
Course: <i>Bio 202—Evolution and Genetics</i>	
<b>Guest Lecturer</b> , Duke University, Department of Biology	November 2013
Course: <i>Bio 490S—Extreme Animal Adaptation</i>	
<b>Lead Science Instructor</b> , Summer Science Sleuths Camp, Duke University	Summer 2012-2014
Emphasis: <i>Human Science</i>	
<b>Teaching Assistant and Lab Instructor</b> , Duke University, Department of Biology	Spring 2012
Course: <i>Bio 151—Principles of Animal Physiology</i>	

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A F F I L I A T I O N S / M E M B E R S H I P S

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<b>National Association of Science Writers</b>	2015-Present
<b>American Society of Primatologists</b>	2013-Present
<b>American Society of Mammalogists</b>	2012-Present
<b>Sigma Xi (Duke University Chapter)</b>	2011-Present

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S C I E N T I F I C   P U B L I C A T I O N S

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Faherty SL, Villanueva-Cañas JL, Blanco MB, Albà MM and Yoder AD. 2017. Transcriptomics in the wild: Hibernation physiology in free-ranging dwarf lemurs. *Submitted to Molecular Ecology*.

Blanco MB, Dausmann KH, **Faherty SL** and Yoder AD. 2015. Tropical heterothermy is “cool”: The expression of daily torpor and hibernation in primates. *Submitted to Evolutionary Anthropology*.

**Faherty SL**, Hilbig SA and Yoder AD. 2016. The effect of body mass and diet composition on torpor patterns in a Malagasy primate (*Microcebus murinus*). *J Comp Physiol B*. doi: 10.1007/s00360-016-1045-6

**Faherty SL**, Villanueva-Cañas JL, Albà MM and Yoder AD. 2016. Gene expression profiling in the hibernating primate *Cheirogaleus medius*. *Genome Biol Evol*. doi: 10.1093/gbe/evw163

Krystal AD, Blanco MB, Dausmann KH, **Faherty SL**, Klopfer PH, Schopler RS and Yoder AD. 2016. Hibernation in a primate. Does sleep occur? *R. Soc. open Sci.* 3.160282 doi: 10.1098/rsos.160282

**Faherty SL**, Campbell CR, Larsen PA and Yoder AD. 2015. Evaluating whole transcriptome amplification for gene profiling experiments using RNA-Seq. *BMC Biotechnology*. 15(65) doi:10.1186/s12896-015-0155-7.

Villanueva-Cañas JL, **Faherty SL**, Yoder AD and Albà MM. 2014. Comparative genomics of mammalian hibernators using gene networks. *Integrative and Comparative Biology* 54(3): 452-462.

Zimmerman NP, Vongsa RA, **Faherty SL**, Salzman NH and Dwinell MB. 2011. Targeted intestinal epithelial deletion of the chemokine receptor CXCR4 reveals important roles for extracellular-regulated kinase-1/2 in restitution. *Laboratory Investigation* 77: 1-16.

**Faherty SL** and Yahnke CJ. 2007. “Erophylla sezekorni”. Animal Diversity Web (online). [http://animaldiversity.ummz.umich.edu/site/accounts/information/Erophylla\\_sezekorni.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Erophylla_sezekorni.html)

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## S C I E N T I F I C P R E S E N T A T I O N S

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**Faherty SL**. 2016. Gene expression and physiologic extremes in primate hibernation. Duke Lemur Center 50<sup>th</sup> Anniversary. Duke Lemur Center. Durham, NC

**Faherty SL**. 2016. Investigating the intrinsic and extrinsic drivers of primate heterothermy. Dissertation seminar. Duke University Department of Biology. Durham, NC.

**Faherty SL**. 2016. Chill out! Hibernation as a “cool way” to survive the winter. Extreme Mammals lecture series. North Carolina Museum of Natural Sciences. Raleigh, NC.

**Faherty SL**. 2016. The curious case of the cold mouse lemur: Why do mouse lemurs “chill out” over the winter. Duke Lemur Center. Durham, NC.

**Faherty SL**. 2015. Dwarf lemurs are “cool”: Primate hibernation in Madagascar. Computational Biology Seminar. Parc de Recerca Biomèdica de Barcelona (PRBB). Barcelona, Spain.

**Faherty SL**. 2015. The curious case of the cold mouse lemur. Evening with the Experts lecture series. Duke Lemur Center. Durham, NC.

**Faherty SL** and Yoder AD. 2014. Gene expression dynamics in a hibernating primate. Evolution annual meeting. Raleigh, NC.

**Faherty SL** and Yoder AD. 2013. Dietary influences on seasonal torpor patterns in captive *Microcebus murinus*. International Prosimian Congress. Ranomafana, Madagascar.

**Faherty SL** and Yoder AD. 2012. Unlocking the genetic code of hibernation: Investigating gene expression profiles during seasonal thermoregulation in a hibernating primate, *Cheirogaleus medius*. International Hibernation Symposium. Semmering, Austria.

**Faherty SL** and Yoder AD. 2012. Assessing gene expression profiles during seasonal thermoregulation in a hibernating primate, *Cheirogaleus medius*. Society for Integrative & Comparative Biology annual meeting, Charleston, SC.

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## M E D I A C O V E R A G E

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Human hibernation: The big sleep. BBC Radio 4. Jan 9, 2017. <http://www.bbc.co.uk/programmes/b086s64v>.

Kuukausia tajuttomana tynnyrissä – Nasan hurja suunnitelma vaivuttaisi Mars-matkaajat horrokseen. Helsingin Santomat (Finnish news). Nov 29, 2016. <http://www.hs.fi/tiede/art-2000004885647.html>

¿Hibernación humana? El secreto está en los genes de este lemur. El Periódico (Spanish news). Sept 11, 2016. <http://www.elperiodico.com/es/noticias/ciencia/genes-lemur-acercan-sueno-hibernacion-humana-5370752>.

Duke's lemurs may hold key to deep space travel. WNCN (CBS Affiliate). Sept 30, 2014. <http://wncn.com/2014/09/30/dukes-lemurs-may-hold-key-to-deep-space-travel-2/WRAL> News.