

**CURRICULUM VITAE: NOAH TODD ASHLEY**  
**formerly Noah Todd Owen-Ashley**

**ADDRESS:**

Department of Biology  
Western Kentucky University  
1906 College Heights Blvd #11080  
Bowling Green, KY 42101-1080  
E-mail: noah.ashley@wku.edu

**EDUCATION:**

University of Washington. Ph. D. (Zoology) 2004  
Advisor: John C. Wingfield  
Dissertation Title: Environmental Regulation of Immune-Endocrine  
Phenomena in Songbirds

Colby College, Waterville, ME. Bachelor of Arts, Biology 1997  
*Summa cum laude*

**EMPLOYMENT:**

Assistant Professor, Dept. of Biology  
Western Kentucky University 2012-present

Postdoctoral Researcher, Dept. of Neuroscience  
The Ohio State University College of Medicine  
Advisor: Dr. Randy Nelson 2011-2012

Affiliate Assistant Professor, Dept. of Biological Sciences  
University of Alaska, Anchorage 2009-2010

National Science Foundation Postdoctoral Fellow  
University of Alaska, Anchorage & Univ. of California, Berkeley  
Advisors: Dr. Loren Buck and Dr. George Bentley 2009-2010

Wildlife Biologist, Department of Wildlife Management, North Slope Borough 2006- 2008  
\* Staff Biologist examining impacts of oil field development on ecology  
and physiology of arctic-breeding birds and mammals

Research Assistant, Department of Zoology, University of Washington 1999-2004  
• Developed and conducted experiments involving avian ecology  
and physiology (see Research Experience below).

Teaching Assistant, Department of Zoology, University of Washington 1998-2002  
• Instructed undergraduate-level biology courses (See teaching experience)

Field Assistant, Archbold Biological Research Station, Florida	1997
Research Assistant, Smithsonian, Washington, D. C.	1996
Teaching Assistant, Colby College, Waterville, Maine	1994-1997

**FELLOWSHIPS AND GRANTS** (*Career total- \$730,174; WKU total- \$192,206*)

*Extramural grants since joining WKU*

NSF IOS pre-proposal (invited)	2015
KBRIN-IDeA Award (\$138,600)	2013-2015
KBRIN start-up award (\$25,000)	2012

*Intramural grants since joining WKU*

2 RCAP I Awards (internal grant; WKU; \$15,000 and \$13,600)	2013, 2015
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*Grants awarded before starting WKU*

NSF Polar Programs Postdoctoral Fellowship (\$140,000)	2009-2010
National Petroleum Reserve-Alaska Impact Grant (Co-PI; \$323,000)	2007-2009
International Behavioral Ecology Travel Award (\$1000)	2004
NSF Dissertation Improvement Grant (\$9,388)	2003-2005
SICB Division of Comparative Endocrinology Travel Award (\$400)	2003
Marcia Brady Tucker Travel Award (\$600)	2002
American Ornithologists' Union (AOU) Research Grant (\$1,780)	2002
Society of Integrative and Comparative Biology (SICB) Research Grant (\$1000)	2001
Sigma-Xi (\$800)	2001
NSF Predoctoral Fellowship (\$60,000)	1999-2001

*Grants submitted, but not funded (WKU)*

NIH R15 (\$404,163, scored, but not funded)	2015
NIH R15 (\$404,163; not scored and not funded)	2014
NIH CAREER (\$1,222,570; scored "high priority," but not funded)	2014
RCAP II (\$8,000)- not funded	2014

*Grants submitted and pending (WKU)*

NIH IOS Invited Full Proposal (\$1,206,310)	2015
KY EPSCoR REG Grant (\$25,000)	2015

**HONORS AND AWARDS:**

*Since joining WKU*

L. W. Lancaster Professor, Dept. of Biology, WKU	2015
Junior Investigator Award, Office of Research, WKU	2014
Chair, Zoology Division, Kentucky Academy of Sciences	2014
First-time Awardee, Office of Research, WKU	2013
Certificate of Excellence in Reviewing, General & Comparative Endocrinology	2013

*Before WKU*

North Slope Science Initiative, Appointed Staff Member	2007-2008
Aubrey Gorbman Award, Best Student Presentation, Society for Integrative and Comparative Biology	2004
Richard Snyder Vertebrate Zoology Award, University of Washington	1999
Biology Senior of the Year, Colby College	1997
Charles A. Dana Award, Colby College	1996

Julius Seeyle Bixler Award, Colby College  
Phi Beta Kappa Award

1995  
1995

**PUBLICATIONS** (6 since @ WKU position, Google Scholar citations = 746, H index = 13)  
(\* indicates undergraduate student authorship, # indicates graduate student authorship)

*Manuscripts submitted:*

Dumaine, J. E.#, and **Ashley, N.T.** Non-summative effects of sleep fragmentation and leptin deficiency upon peripheral and brain inflammatory responses. *Submitted to Journal of Obesity*

*In print:*

- (20) Dumaine, J. E. #, and **Ashley, N. T.** 2015. Acute sleep fragmentation induces tissue-specific changes in cytokine gene expression and increases serum corticosterone concentration. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. 308:R1062-9.
- (19) **Ashley, N. T.**, Ubuka, T., Schwabl, I. Goymann, W., Salli, B. \*, Bentley, G. E., and Buck, C. L. 2014. Revealing a circadian clock in captive arctic-breeding songbirds, Lapland longspurs (*Calcarius lapponicus*), under constant illumination. *Journal of Biological Rhythms* 29:456-69.
- (18) **Ashley, N. T.**, Walton, J. C. #, Haim, A. #, Zhang, N., Prince, L. A.\*, Fruchey, A. M.,\* Lieberman, R. A.,\* Weil, Z. M., Magalang, U. J., Nelson, R. J. 2013. Sleep deprivation attenuates cytokine gene expression independent of photoperiod and circulating cortisol in endotoxin-challenged male Siberian hamsters. *Journal of Experimental Biology* 216:2581-6.
- (17) **Ashley, N. T.**, Schwabl, I., Goymann, W., and Buck, C. L. 2013. Keeping time under the midnight sun: behavioral and melatonin profiles of free-living Lapland Longspurs (*Calcarius lapponicus*) during the Arctic summer. *Journal of Experimental Zoology Part A*. 319:10-12.
- (16) **Ashley, N. T.**, Weil, Z. M., and Nelson, R. J. 2012. Inflammation: mechanisms, costs, and natural variation. *Annual Review of Ecology, Evolution, and Systematics*. 43:385-406.
- (15) **Ashley, N. T.**, Zhang, N., Weil, Z. M., Magalang, U., Nelson, R. J. 2012. Photoperiod alters the duration and intensity of non-REM sleep following immune challenge in Siberian hamsters (*Phodopus sungorus*). *Chronobiology International*. 29:683-692.

*Prior to WKU*

- (14) **Ashley, N. T.** and J. C. Wingfield. 2012. Sickness Behavior in Vertebrates: Allostasis, Life History Modulation, and Hormonal Regulation. In: G. E. Demas and R. J. Nelson, eds. *EcoImmunology*. Pp. 45-91. Oxford University Press.

- (13) **Ashley, N.T.**, Barboza, P. S., Macbeth, B. J. #, Janz, D. M., Cattet, M. R. L., Booth, R. K., Wasser, S. K. 2011. Glucocorticosteroid concentrations in feces and hair of captive caribou and reindeer following adrenocorticotrophic hormone challenge. General and Comparative Endocrinology 172:382-391.
- (12) **Ashley, N.T.**, Hays, Q. R\*., Bentley, G. E., and J. C. Wingfield. 2009. Testosterone treatment diminishes sickness behavior in male songbirds. Hormones and Behavior 56:169-176.
- (11) **Owen-Ashley, N. T.**, D. Hasselquist, L. Raberg, and J. C. Wingfield. 2008. Latitudinal variation of immune defense and sickness behavior in the White-crowned Sparrow (*Zonotrichia leucophrys*). Brain Behavior and Immunity 22:614-625.
- (10) **Owen-Ashley, N. T.** and J. C. Wingfield. 2007. Acute phase responses of passerines: characterization and seasonal variation. Journal of Ornithology 148 (Suppl 2):S583-S591
- (9) **Owen-Ashley, N. T.** and J. C. Wingfield. 2006. Seasonal modulation of sickness behavior in free-living song sparrows (*Melospiza melodia morphna*). Journal of Experimental Biology 209:3062-3070.
- (8) **Owen-Ashley, N. T.**, M. Turner\*, T. P. Hahn, and J. C. Wingfield. 2006. Hormonal, behavioral, and thermoregulatory responses to bacterial lipopolysaccharide in captive and free-living Gambel's White-crowned Sparrow (*Zonotrichia leucophrys gambelii*). Hormones and Behavior 49:15-29.
- (7) **Owen-Ashley, N. T.** and L. K. Butler (Authors contributed equally). 2004. Androgens, interspecific competition and species replacement in hybridizing warblers. Proceedings of the Royal Society of London. Series B. 271:S498-S500.
- (6) **Owen-Ashley, N. T.**, Hasselquist, D., and J. C. Wingfield. 2004. Androgens and the immunocompetence handicap hypothesis: unraveling direct and indirect pathways of immunosuppression in song sparrows. American Naturalist 490-505.
- (5) Wingfield, J. C, **N.T. Owen-Ashley**, Z.M. Benowitz-Fredericks, S.E. Lynn, T. P. Hahn, H. Wada, C. Breuner, S. L. Meddle, and L.M Romero. 2004. Arctic spring: the arrival biology of migrant birds. Acta Zoologica Sinica 50:948-960.
- (4) Meddle, S. L., **N. T. Owen-Ashley**, M. I. Richardson, and J. C. Wingfield. 2003. Modulation of the hypothalamic-pituitary-adrenal axis in the polygynandrous Smith's Longspur (*Calcarius pictus*). Proceedings of the Royal Society of London. Series B 270:849-1856.
- (3) Breuner, C. W., M. Orchink, T. P. Hahn, S. L. Meddle, I. T. Moore, **N. T. Owen-Ashley**, T. S. Sperry, and J. C. Wingfield. 2003. Mechanisms for plasticity of the stress response in three subspecies of white-crowned sparrow. American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology 285:R594-R600.

(2) **Owen-Ashley, N. T.**, S. J. Schoech, and R. L. Mumme. 2002. Context-specific response of Florida Scrub-Jay pairs to Northern Mockingbird vocal mimicry. Condor 104:858-865.

(1) **Owen-Ashley, N. T** and Wilson, D. E. 1998. *Micropteropus pusillus*. Peter's Dwarf Epauletted Fruit Bat. Mammalian Species. No. 577:1-5.

#### **PRESS COVERAGE:**

*Since joining WKU:*

KBRIN-associated sleep deprivation research:

**WKU Herald: Oct. 28, 2014;** <http://issuu.com/wkuherald/docs/10.28>

**Ashley, N. T.**, Schwabl, I., Goymann, W., and Buck, C. L. 2013. Keeping time under the midnight sun: behavioral and melatonin profiles of free-living Lapland Longspurs (*Calcarius lapponicus*) during the Arctic summer. Journal of Experimental Zoology Part A. 319:10-12.

**Dugdug:** <http://www.dugdug.com/dr-noah-ashley-discusses-timekeeping-in-the-arctic>

Commentary on Circadian Rhythms in Birds (July 2013):

**National Geographic:** <http://news.nationalgeographic.com/news/2013/06/130618-circadian-rhythm-arctic-bird-migrating-science/>

*Prior to WKU:*

**Owen-Ashley, N. T.** and J. C. Wingfield. 2006. Seasonal modulation of sickness behavior in free-living song sparrows (*Melospiza melodia morphna*). J. Exp. Biol. 209:3062-3070.

**Science magazine:** <http://sciencenow.sciencemag.org/cgi/content/full/2006/804/2>

**Owen-Ashley, N. T** and L. K. Butler. 2004. Androgens, interspecific competition and species replacement in hybridizing warblers. Proc. R. Soc. Lond. B. S498-500.s

**Reuters:** <http://www.reuters.com/newsArticle.jhtml?type=topNews&storyID=6067047>

**Los Angeles Times:** <http://www.latimes.com/news/nationworld/nation/la-sci-briefs28.4aug28,1,5029276.story>

**Newswise:** <http://www.newswise.com/articles/view/506700/>

**MSNBC:** <http://www.msnbc.msn.com/id/5809902/>

**Environmental News Network (ENN):** [http://www.enn.com/news/2004-08-25/s\\_26687.asp](http://www.enn.com/news/2004-08-25/s_26687.asp)

#### **PUBLISHED ABSTRACTS**

*Since joining WKU:*

**Ashley, N.T.**, Hasselquist, D., and Wingfield, J. C. 2015. Testosterone and immunosuppression in an arctic-breeding songbird. Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology), West Palm Beach, FL, January 4-8<sup>th</sup>, 2015.

**Ashley, N.T.**, and Wingfield, J. C. 2014. Testosterone at the Top of the World: Disparate hormone-behavior interrelationships between two high-arctic breeding populations of Lapland Longspurs (*Calcarius lapponicus*). Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology), Austin, TX, January 3-7<sup>th</sup>, 2014.

**Ashley, N.T.**, Zhang, N., Weil, Z. M., Magalang, U. J., Nelson, R. J. 2013. Sleeping dwarfs: photoperiodic modulation of infection-induced sleep in Siberian hamsters (*Phodopus sungorus*). Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology), San Francisco, CA, January 3-7<sup>th</sup>, 2013.

*Prior to WKU:*

Salli, B.\*, **Ashley, N. T.**, Buck, C. L. 2011. Effect of testosterone on the synchronization of activity rhythms to low amplitude zeitgebers in an arctic-breeding songbird. Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology)

**Owen-Ashley, N. T.**, D. Hasselquist, and J. C. Wingfield. 2005. Examining the indirect effects of testosterone-induced immunosuppression in songbirds. II.) Effect of pharmacological adrenalectomy on humoral immune responses in testosterone-implanted birds. Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology), San Diego, CA, January 4-8, 2005.

**Owen-Ashley, N. T.**, D. Hasselquist, and J. C. Wingfield. 2005. Examining the indirect effects of testosterone-induced immunosuppression in songbirds. I.) Effects of corticosterone and estradiol on acquired immune function. Annual Meeting and Exhibition of the SICB (Society of Integrative and Comparative Biology), San Diego, CA, January 4-8, 2005.

**Owen-Ashley, N. T.**, and J. C. Wingfield. 2004. Seasonal differences in expression of sickness behavior after experimental 'pseudoinfection' in free-living song sparrows (*Melospiza melodia morphna*). Annual Meeting and Exhibition of the SICB (Society for Integrative and Comparative Biology), New Orleans, LA, USA, January 05-09, 2004.

**Owen-Ashley, N. T.**, M. Turner\*, T. P. Hahn, and J. C. Wingfield. 2004. Hormonal, behavioral, and thermoregulatory consequences of lipopolysaccharide-induced sickness in the White-crowned Sparrow (*Zonotrichia leucophrys gambelii*). Annual Meeting and Exhibition of the SICB (Society for Integrative and Comparative Biology), New Orleans, LA, USA, January 05-09, 2004.

**Owen-Ashley, N. T.**, D. Hasselquist, and J. C. Wingfield. 2003. Indirect mechanisms of testosterone-induced immunosuppression in songbirds: A new paradigm. Annual Meeting and Exhibition of the SICB (Society for Integrative and Comparative Biology), Toronto, ON, Canada, January 04-08, 2003

**Owen-Ashley, N. T.,** Q. Hays\*, G. E Bentley, and J. C. Wingfield. 2003. Testosterone reduces sickness behavior in songbirds. Annual Meeting and Exhibition of the SICB (Society for Integrative and Comparative Biology), Toronto, ON, Canada, January 04-08, 2003

**Owen-Ashley, N. T.,** L. K. Butler, S. Rohwer, and J. C. Wingfield. 2002. The role of testosterone in a moving avian hybrid zone. Annual Meeting of the Society for Integrative and Comparative Biology, Anaheim, California, USA, January 02-06, 2002

## **INVITED SYMPOSIA**

*Since joining WKU:*

**Ashley, N. T.** Spring 2015. The Vertebrate Inflammatory Response: The Good, The Bad, And the Ugly. Center for the Integrative Study of Animal Behavior. Indiana University, Bloomington, IN.

**Ashley, N. T.** 2015. The Vertebrate Inflammatory Response: Mediation by Life-History Tradeoffs. Departmental Seminar. Dept. of Biological Sciences, Northern Arizona University.

**Ashley, N. T.** 2015. The Vertebrate Inflammatory Response: Mediation by Life-History Tradeoffs. Departmental Seminar. Dept. of Biological Sciences, University of Alabama.

*Prior to WKU:*

**Ashley, N. T.** 2012. Endotoxemia and sleep: effects of day length. Ohio State University Medical Center Grand Rounds (Davis Heart and Lung Institute).

**Ashley, N.T.** 2011. Testosterone-induced immunosuppression in songbirds: trouble or triumph? North American Society for Comparative Endocrinology. University of Michigan, Ann Arbor, Michigan

**Ashley, N.T.,** T., Ubuka, G. E. Bentley, and C. L. Buck. 2010. Circadian organization of arctic-breeding songbirds. International Ornithological Congress, Campus do Jordão, Brazil.

**Owen-Ashley, N. T.** and J. C. Wingfield. 2006. Acute phase responses of passerines: characterization and life history modulation. International Ornithological Congress, Hamburg, Germany.

**Owen-Ashley, N. T.** and Butler, L. K. 2004. Are endocrinological “rules of thumb” sufficient to explain the movement of a *Dendroica* warbler hybrid zone? E-bird ESF/NSF/NSERC workshop. Tradeoffs and constraints. Groningen, Netherlands.

## **STUDENT PRESENTATIONS** (*13 student presentations since joining WKU (3 oral student presentations; 10 posters)*)

Dumaine, J. E. and Ashley, N. T. 2015. Acute sleep fragmentation induces tissue-specific changes in cytokine gene expression and increases serum corticosterone concentration. WKU Annual Student Research Conference, Bowling Green, KY

- England, J. L, Vo, H. D. L., Ashley N. T. 2015. Sleep deprivation increases the sensitivity of the hypothalamo-pituitary-adrenal axis to dexamethasone treatment in C57BL/6j mice. WKU Annual Student Research Conference, Bowling Green, KY
- Owens, N., Doctrow, J., Ashley, N.T. 2015. Effects of Chronic Sleep Fragmentation on Corticosterone Levels in Mice. WKU Annual Research Conference, Bowling Green, KY
- Dumaine, J. E. and Ashley, N. T. 2014. Acute sleep fragmentation induces tissue-specific changes in cytokine gene expression and increases serum corticosterone concentration. Kentucky Academy of Sciences Annual Meeting, Lexington, KY
- Dumaine, J. E. and Ashley, N. T. 2014. Acute sleep fragmentation induces tissue-specific changes in cytokine gene expression and increases serum corticosterone concentration. Gregory P. Domin Graduate Research Conference, Columbus State University, Columbus, GA.
- Sams, D.W., and Ashley, N. T. 2014. Sleep deprivation, stress, and inflammation: controls matter. Kentucky Academy of Sciences Annual Meeting, Lexington, KY
- Dotson, K. A. and Ashley, N. T. 2014. Effect of Black and Turkey Vulture Regurgitation upon *Escherichia coli* bacteria. Kentucky Academy of Sciences Annual Meeting, Lexington, KY
- Sams, D.W., and Ashley, N. T. 2014. Sleep deprivation, stress, and inflammation: controls matter. Annual BSURE symposium, Bowling Green, KY
- Sams, D. W., Brown, A.C., Ashley, N. T. 2014. Sleep deprivation increases cytokine gene expression and plasma corticosterone levels in a murine model: a possible link between stress and inflammation? WKU Annual Student Research Conference, Bowling Green, KY
- Dotson, K. A. and Ashley, N. T. 2014. Effect of Black and Turkey Vulture Regurgitation upon *Escherichia coli* bacteria. WKU Annual Student Research Conference, Bowling Green, KY
- Smith, A., Huff, A., and Ashley, N.T. 2014. Sexual differences in anxiety following sleep deprivation. WKU Annual Student Research Conference, Bowling Green, KY
- Brown, A.C., Sams, D. W., Ashley, N. T. 2013. Sleep deprivation increases cytokine gene expression and plasma corticosterone levels in a murine model: a possible link between stress and inflammation? Kentucky Academy of Sciences Annual Meeting, Morehead, KY, Nov. 8-9, 2013.
- Brown, A.C., Sams, D. W., Ashley, N. T. 2013. Sleep deprivation increases cytokine gene expression and plasma corticosterone levels in a murine model: a possible link between stress and inflammation? Annual BSURE conference, Bowling Green, KY



## **STUDENT AWARDS**

Outstanding Graduate Student, Department of Biology, Western Kentucky University, *Jennie Dumaine*- 2015

Outstanding Biotechnology Student, Department of Biology, Western Kentucky University, *Audrey Brown*- 2015

Lewis B. Lockwood Scholarship, Department of Biology, Western Kentucky University, *Audrey Brown*- 2015

Barry Goldwater Fellowship, Honorable Mention, *Audrey Brown*- 2015

Summer DAAD Fellowship, *Audrey Brown*- 2015

Lifetime Experience Grant, Western Kentucky University, *Audrey Brown*- 2015

Faculty-Undergraduate Student Engagement Award, Western Kentucky University, *Audrey Brown*-2015

Graduate Research Fellowship, Western Kentucky University, *Laken Cooper*- 2015

1<sup>st</sup> Place, Presentation, Health Science, Kentucky Academy of Sciences, *Jennie Dumaine*- 2014

Graduate Research Fellowship, Western Kentucky University, *Jennie Dumaine*- 2014

Lifetime Experience Grant, Western Kentucky University, *David Sams*- 2014

Faculty-Undergraduate Student Engagement Award, Western Kentucky University, *Nakeya Owens*-2014

Faculty-Undergraduate Student Engagement Award- *David Sams*-2014

Dillard-Hoyt Award, Department of Biology, Western Kentucky University, *Jennie Dumaine*- 2014

Best Poster Award (1<sup>st</sup> place), Gregory P. Domin Graduate Research Conference, Columbus State University, Columbus, GA., *Jennie Dumaine*- 2014

Faculty-Undergraduate Student Engagement Award- *Kaitlyn Dotson*-2013

2<sup>nd</sup> place, Best Poster Award, Kentucky Academy of Sciences, *Audrey Brown*- 2013

**UNDERGRADUATE STUDENT MENTORING** (*Since starting at WKU: 12 undergraduate students that include 2 Gatton Academy students*) (*\*co-authored publications; #co-authored presentation*)

Western Kentucky University

### Honor Thesis Students

Audrey Brown# – 2012-present (defending Spring 2016)

David Sams#- 2012-present (defending Spring 2016)

Amber Bishop- 2014-present (defending Spring 2016)

Callie Allison- 2013-present (defending Spring 2016)

### Independent Research Students

Nakeya Owens#- 2014-2015- Gatton Student

Chase Knibbe- 2014-2015

Dai Le Hieu Vo#- 2012-2015

Johnny England#- 2013-2015

Jamie Doctrow#- 2012-2014

Austin Smith#- 2013-2014- Gatton Student

Austin Huff#- 2013-2014

Ryne Armes- 2013  
Kaley Coffey- 2012-2014

*Prior to WKU*

Rebecca Lieberman\* (undergraduate, The Ohio State University, Columbus, Ohio)  
Allison Fruchey\* (undergraduate, The Ohio State University, Columbus, Ohio)  
Laura Prince\* (undergraduate, The Ohio State University, Columbus, Ohio)  
Tanvi Joshi (undergraduate, The Ohio State University, Columbus, Ohio)  
Michael Turner\*# (undergraduate, University of Washington, Seattle)  
Quentin Hays\*# (undergraduate, University of Washington, Seattle)  
Luke George (undergraduate, University of Alaska, Fairbanks)  
Amelia Stankiewicz (undergraduate, University of Alaska, Fairbanks)  
Vera Simmonds (undergraduate, Alaska Pacific University)  
Katie Akpik (high school student, Barrow High School)  
Brady Salli (undergraduate, University of Alaska, Anchorage)  
Gunnar Carroll (high school student, Barrow High School)  
Trace Hudson (high school student, Barrow High School)

**GRADUATE STUDENT MENTORING** (2 students chaired since joining WKU)

Thesis Committee Chair

Jennie Dumaine\*#- M. S. completed Spring 2015  
Laken Cooper- Expected M. S. Spring 2016

Committee Member

Laura Caroline Jones

External Committee Member for Ph.D. Dissertation

Elizabeth Carlton- Indiana University- defended Spring 2015

**TEACHING EXPERIENCE** (Since joining WKU 6 undergraduate and 1 graduate courses taught)

*Full Courses*

BIOL 464 (Endocrinology) Western Kentucky University	2013
BIOL 464G (Endocrinology) Western Kentucky University	2013
BIOL131 (Human Anatomy & Physiology), Western Kentucky University (4)	2012-2014
BIOL326 (Ornithology), Western Kentucky University	2015

*Teaching assistantships*

Introductory Physiology, University of Washington	1998, 2002
Vertebrate Zoology, University of Washington	1999
Comparative Vertebrate Anatomy, University of Washington	1999, 2002

*Guest Lectures*

Immunology, Western Kentucky University	2014
Comparative Vertebrate Endocrinology, University of Washington	2000, 2001

## **SERVICE**

### **University Service**

Member, WKU Institutional Animal Care and Use Committee (2013-2015)

### **Departmental Service**

Chair, Biology Departmental Seminar Committee (Fall 2015)

Member, Advising Committee (2014-2015)

Member, Safety Committee (2013-2014)

### **Professional Service**

*Grant Reviewer*

*External*

Israeli Science Foundation, *ad hoc* review, 2012, 2013

NSF referee, IOS, *ad hoc* review, 2011

*Internal*

WKU FUSE grants, *ad hoc* review, 2013

*Journal Reviewer (28 manuscripts reviewed since joining WKU; Total # = 83)*

American Journal of Physiology: Regulatory, Integrative, and Comparative Biology

Arctic

Auk (4)

Behavioral Ecology and Sociobiology

Biology Letters

Brain, Behavior, and Immunity (10)

General and Comparative Endocrinology (16; awarded Excellence in Reviewing)

Evolutionary Ecology

Evolutionary Ecology Reviews

Evolution, Medicine, and Public Health

Frontiers in Neuroendocrinology

Functional Ecology (2)

Hormones & Behavior (13)

International Journal of Developmental Neuroscience

Journal of Avian Biology (2)

Journal of Comparative Physiology, Part B

Journal of Experimental Zoology, Part A (3)

Journal of Neuroendocrinology

Journal of Ornithology

Journal of Thermal Biology

Neuroimmunomodulation

Oecologia

Ornitologia Neotropical

Physiology & Behavior (2)

Psychoneuroimmunology (5)

Proceedings of the Royal Society of London, B (6)  
Science (2014 reviewer)  
The American Naturalist (3)  
The Condor (3)  
Journal of Experimental Biology

*Public Service*

Judge- “Zoology” student oral presentations, 2014, Kentucky Academy of Sciences, Lexington, KY

Demonstrations- Potter Gray Elementary School, Science Fair, 2014

Judge- “Physiology” student oral presentations, 2012, Kentucky Academy of Sciences, Richmond, KY

**PROFESSIONAL AFFILIATIONS**

American Association for the Advancement of Science  
American Ornithologists’ Union  
Cooper Ornithological Society  
Sleep Research Society  
Society for Integrative and Comparative Biology  
Society for Behavioral Neuroendocrinology

**COLLABORATORS (last 24 months)**

Bentley, George (University of California, Berkeley); Buck, Loren (University of Anchorage, Alaska); Hasselquist, Dennis (Lund University, Sweden); Goymann, Wolfgang (Max Planck); Rattenborg, Niels (Max Planck); Morris, Andrew (University of Kentucky); Nelson, Randy (Ohio State University); O’Hara Bruce (University of Kentucky); Ubuka, Takayoshi (University of Tokyo); Vyssotski, Alexei (University of Zurich); Weil, Zachary (Ohio State University); Wingfield, John (University of California, Davis);