

# Andrew Richard Dismukes

*Curriculum Vitae*

*Last Update 07/11/2018*

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## Contact Information

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[andrewdismukes](https://github.com/andrewdismukes)

*Open Science Foundation:*

<https://osf.io/c5rkb/>

*Google Scholar:*

<https://scholar.google.com/citations?user=OHaFHmMAAAAJ&hl=en>

## Current Position

*Postdoctoral Fellow*

Pennsylvania State University Advisor: Dr. Jenae Neiderhiser

## Education

<b>Ph.D.</b> , <i>Human Development and Family Studies</i> , Iowa State University	2018
Dissertation: Development of the Stress Response System from infancy to adolescence	
Advisor: Dr. Elizabeth A. Shirtcliff	
<b>M.S.</b> , <i>Biological Psychology</i> , University of New Orleans	2013
Thesis: Coupling of the HPA and HPG Axes	
Advisor: Dr. Elizabeth A. Shirtcliff	
<b>B.S.</b> , <i>Biochemistry</i> , Auburn University	2004

## Experience

### Current

*Postdoctoral Fellow*, GenexEnvironment Interplay Lab, Penn State University. 2018-

## Previous<sup>1</sup>

- Research Assistant*, Stress Physiology in Teens Lab, Iowa State University. 2011-2018  
Mentor: Dr. Elizabeth Shirtcliff  
Role: Activities include but are not limited to assenting, consenting, and interviewing adolescents in a variety of settings; Collecting hormone samples; Hormone assay; Statistical analysis; Publication, presentation, grant development; Mentoring undergraduates.
- Research Assistant*, BANGL Lab, Tulane University. 2014-2016  
Mentor: Dr. Stacy S. Drury  
Role: Infant Development Study (IDS) Research Assistant: Duties involve collecting heart rate data on infants and collecting multiple saliva and epithelial cell samples from infants for DNA, RNA, and hormone analysis; Epithelial cell and salivary gene extraction and quantitative amplification techniques for genetic regions of interest; Salivary RNA extraction and quantification; Data analysis and dissemination.  
Website: <http://www2.tulane.edu/som/bangl/>
- Psychometrist*, Dothan Neuropsychological Services, Dothan, AL. 2009-2010  
Role: In-hospital and clinic psychometric evaluations
- Program coordinator*, LEAP Autism Services, Dothan, AL. 2009-2010  
Role: Program Coordinator and lead therapist.
- Research Associate*, Brookwood Pharmaceuticals, Birmingham, AL. 2005  
Role: Lab Technician for Research and Development and clean room production
- Research Assistant*, Duin Laboratory, Auburn University, 2003  
Mentor: Dr. Eduardus Duin  
Role: Lab Technician, Experimental investigation of the biochemistry of metalloenzymes
- Intern*, All Kinds of Minds Institute, 2000  
Mentor: Dr. Melvin Levine  
Role: Assisted in original research developing a neuropsychological assessment measure of ADHD

## Awards

- College of Human Sciences Merit Scholarship*, Iowa State University 2017  
Purpose: This internally funded, merit based scholarship partially funded tuition.
- Travel Award Winner*, Society for Research in Child Development 2017  
Purpose: This externally funded award facilitated travel to Austin, and conference attendance, present two symposia entitled "Reactive DHEA(s) is Associated with Callous Unemotional Traits in Institutionalized Youth and Pituitary Volume and Glucocorticoid Receptor Genotype" "Contribute to the Development of Callous-Unemotional Traits" at the Society for Research on Child Development.
- College of Human Sciences Merit Scholarship*, Iowa State University 2016

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<sup>1</sup>Limited to graduate-study related experiences

Purpose: This internally funded, merit based scholarship partially funded tuition.	
<i>HDFS Department Outstanding Emerging Professional Award</i> , Iowa State University	2016
Purpose: This award is presented yearly by the HDFS department to the graduate student who best exhibits productivity in research, teaching and service throughout his or her graduate career.	
<i>GOMURC Student Presenter Award</i> Gulf Research Consortium*	2016
Purpose: Award for Presentation at the Gulf of Mexico University Research Collective entitled "Gulf Oil Spill Stress Affects Telomere Length in Children"	
<i>College of Human Sciences Merit Scholarship</i> , Iowa State University	2015
Purpose: This internally funded, merit based scholarship partially funded tuition.	
<i>Travel Award Winner</i> , Society for Research in Child Development	2015
Purpose: This externally funded award facilitated travel to Philadelphia, and conference attendance, to co-chair and present a symposium entitled "Temporally and Contextually Dependent Coupling of the HPA and HPG Axes" at the Society for Research on Child Development.	
<i>Helen E. Clark Leadership Award</i> , Iowa State University	2014
Purpose: This internally funded, merit based scholarship partially funded tuition	
<i>Raymond Pearson Memorial Scholarship</i> , Iowa State University	2014
Purpose: This internally funded, merit based scholarship partially funded tuition.	
<i>College of Sciences Recognition of Excellence in Psychology Award</i> , University of New Orleans	2014
Purpose: This award is presented to graduate level students in the college of psychology who contribute significantly through research as students.	
<i>Travel Award Winner</i> , University of New Orleans	2012
Purpose: This internally funded award facilitated travel and conference attendance to New Orleans, Louisiana to present a poster entitled "Co-regulation of HPA and HPG axes in Psychopathy" at the Society for Behavioral Medicine.	
<i>Travel Award Winner</i> , Wisconsin Symposium on Emotion	2012
Purpose: This externally funded award facilitated travel to Madison Wisconsin to present a poster entitled "Abuse and the coupling of Cortisol with Testosterone and Dhea in Adolescent Males" at the 2012 Annual Wisconsin Symposium on Emotion.	
<i>Lord Rothermere Scholarship</i> , Oxford University, Oxford, England	2003
Purpose: This award facilitated a semester study abroad program at Oxford University, Oxford, England.	
<i>Biochemistry Merit Scholarship</i> , Auburn University, Auburn, AL	2002
Purpose: This internally funded, merit based scholarship partially funded tuition.	

## Grants & Contracts

### Completed

R01 MH101533-01: "Setting a trajectory: Biomarkers of early stress and attachment across development."  
Principal Investigator: Stacy Drury.  
Agency: National Institute of Mental Health.

Type: R01 BRAINS (Biobehavioral Research Award for Innovative New Scientist).  
Role: Research Assistant.  
Total Direct Costs: \$1,610,833.

R21 MH093675: "Biobehavioral Mechanisms for Severe Disruptive Behavior in Adolescent Girls."  
Principal Investigator: Elizabeth Shirtcliff.  
Agency: National Institute of Mental Health.  
Type: R21  
Role: Research Assistant.  
Total direct costs: \$275,000.

Rosenfeld Internal Grant: "Louise M. Rosenfeld International Travel Grant."  
Principal Investigator: Andrew Dismukes.  
Agency: Iowa State University.  
Type: Internal Funding  
Role: Principal Investigator.  
Total Direct Costs: \$1,000

## Submitted but not funded

F31 MH110132-01A1: "From Microarray to the HPA: Etiological considerations of Callous Unemotional Traits in Youth."  
Principal Investigator: Andrew Dismukes  
Agency: National Institute of Health.  
Role: Principal Investigator.  
*Scored but unfunded*

## Publications

### Book Chapters

Zakareski, E., Dismukes, A.R., Tountas, A., Moody, S.N., Phan, J. (2018). The Social Neuroendocrinology of Development: A New Framework for Understanding Adaptive Calibration. *Handbook of Social Neuroendocrinology*

**Dismukes, A. R.**, Shirtcliff, E.A., Drury, S.S., (2018). Genetic and Epigenetic Processes in Infant Mental Health. *Handbook of Infant Mental Health*. Guildford Press.

Vitacco, M.J., Shirtcliff, E.A., Dismukes, A.R., Johnson, M. (2015). Biomarkers, Science and the Prediction of Violence: Clinical and Legal Issues. *The Courts and Sciences Journal*, 2(1). *Special Issue on Science in the courtroom: The science of aggression and violence in the courts*.

### Journal Articles

**Dismukes, A. R.**, Shirtcliff, E.A., Drury, S.S., Theall, K.T., (2018) The Development of the Cortisol Response to Dyadic Stressors in Black and White Infants. *Development and Psychopathology*

Theall, K. P., Shirtcliff, E. A., Dismukes, A. R., Wallace, M., & Drury, S. S. (2017). Association between neighborhood violence and biological stress in children. *JAMA pediatrics*, 171(1), 53-60. 8.

**Dismukes, A. R.**, Meyer, V. J., Shirtcliff, E. A., Theall, K. P., Esteves, K. C., & Drury, S. S. (2016). Diurnal and stress-reactive dehydroepiandrosterone levels and telomere length in youth. *Endocrine connections*, 5(3), 107-114.

Shirtcliff, E. A., Dismukes, A. R., Marceau, K., Ruttle, P. L., Simmons, J. G., & Han, G. (2015). A dual axis approach to understanding neuroendocrine development. *Developmental psychobiology*, 57(6), 643-653

**Dismukes, A. R.**, Shirtcliff, E. A., Hanson, J. L., & Pollak, S. D. (2015). Context influences the interplay of endocrine axes across the day. *Developmental psychobiology*, 57(6), 731-741.

**Dismukes, A. R.**, Johnson, M. M., Vitacco, M. J., Iturri, F., & Shirtcliff, E. A. (2014). Coupling of the HPA and HPG axes in the context of early life adversity in incarcerated male adolescents. *Developmental Psychobiology*, 57.6 (2015): 705-718.

Gostisha, A. J., Vitacco, M. J., Dismukes, A. R., Brieman, C., Merz, J., & Shirtcliff, E. A. (2014). Beyond physiological hypoarousal: The role of life stress and callous-unemotional traits in incarcerated adolescent males. *Hormones and behavior*, 65(5), 469-479.

Shirtcliff, E. A., Peres, J. C., Dismukes, A. R., Lee, Y., & Phan, J. M. (2014). Hormones: Commentary: Riding the Physiological Roller Coaster: Adaptive Significance of Cortisol Stress Reactivity to Social Contexts. *Journal of personality disorders*, 28(1), 40-51.

Johnson, M. M., Dismukes, A. R., Vitacco, M. J., Breiman, C., Fleury, D., & Shirtcliff, E. A. (2014). Psychopathy's influence on the coupling between hypothalamic-pituitary-adrenal and -gonadal axes among incarcerated adolescents. *Developmental psychobiology*, 56(3), 448-458.

## Under Review

Phan, J.M., Dismukes, A.R., Barnett, N.B., Miocevic, O., Ruttle, P., Shirtcliff, E.A. (Under Review). Adrenocortical and autonomic attunement between romantic partners in emerging adulthood. *Stress*

## In Preparation

**Dismukes, A.R.**, Shirtcliff, E.A., Allen, N.M., Simmons, J.G., (In Preparation) Adolescent Development of Callous Unemotional Traits: The Role of Pituitary Volume and Glucocorticoid Receptor Genotype

**Dismukes, A. R.**, Shirtcliff, E.A., Humphreys, K.L., Drury, S.S., Zeanah, C.Z., Fox, N., Nelson, C.N. (In Preparation) DHEA Reactivity and Antisocial Behavior in Institutionalized Youth

## Participation at Professional Meetings

### Oral Presentations<sup>2</sup>

Phan, J.M., Kroener, J., Peres, J.C., Miocevic, O., Dismukes, A.R., Shirtcliff, E.A. (2017). Physiological Attunement in Emerging Adult Partners during Stress. Paper presented at Society for Research on Child Development, Austin, TX

<sup>3</sup>Dismukes, A. R., Shirtcliff, E.A., Drury, S.S., Humphreys, K., Nelson, C., Fox, N., Zeanah, C. (2017). Reactive DHEA(s) is Associated with Callous Unemotional Traits in Institutionalized Youth. Paper presented at Society for Research on Child Development, Austin, TX

<sup>3</sup>Dismukes, A. R., Shirtcliff, E.A., Allen, N., Byrne, M., Dennison, M., Simmons, J. (2017). Pituitary Volume and Glucocorticoid Receptor Genotype Contribute to the Development of Callous-Unemotional Traits. Paper presented at Society for Research on Child Development, Austin, TX

<sup>3</sup>Dismukes, A. R., Shirtcliff, E.A., Merrill L.M., Theall, K.T., Drury, S.S., (2016). Sex and Race Differences in Infant Stress Responsivity. Paper presented at the International Congress of Infant Studies, New Orleans LA

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<sup>2</sup>17 total

<sup>3</sup>Honoraria or Travel Award Support

<sup>3</sup>Dismukes, A. R., Shirtcliff, E.A, Theall, K.T, Drury, S.S. (2016). Individual differences in infant stress reactivity at four and twelve months of age. Symposium presented at the Life History Society Annual Meeting, Copenhagen, Denmark

Johnson, M.M., Dismukes, A.R., Vitacco, M.J., Shirtcliff, E.A. (2016). Callousness Predicts Flattened Cortisol Functioning Across Time in Incarcerated Adolescents. Paper presented at the American Psychology Law Society, Atlanta, Georgia.

<sup>3</sup>Dismukes, A. R., Esteves, K., Theall, K.T., Harville, E., Wickliffe, J., Lichtveld, M., (2016) Gulf Oil Spill Stress Affects Telomere Length in Children. Paper presented at the Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa, FL.

Dismukes, A. R. (2015). From Microarray to the HPA: Etiological Considerations of Callous Unemotional Traits in the Bucharest Early Intervention Program. Colloquium presented to the students and faculty of the University of New Orleans Graduate Department in Psychology, New Orleans, LA.

Esteves, K., Dismukes, A.R, Wren, M., DeBoever, P, Drury, S.S. (2015) Methylation in the Bucharest Early Intervention Program. BEIP data conference, New Orleans, LA

Dismukes, A. R., Esteves, K., Theall, K, DeBoever, P, Drury, SS. (2015) Gene Expression in the Bucharest Early Intervention Program. BEIP data conference, New Orleans, LA

<sup>3</sup>Dismukes, A. R., Simmons, J.G. (2015). Pathways to Callous Unemotional Traits in Adolescence: Early Environment and the HPA Axis. Grand Rounds lecture presented to the faculty of the University of Melbourne Neuropsychiatry Department, Melbourne, Australia.

<sup>3</sup>Dismukes, A. R.(Symposium Co-Chair)., Shirtcliff, E.A., (2015). Temporally and Contextually Dependent Coupling of the HPA and HPG Axes. Symposium presented at the Society for Research in Child Development, Philadelphia, Pennsylvania.

Dismukes, A. R., Vitacco, M.J., Johnson, M.M., Lee, Y., Shirtcliff, E.A., (2014). Early Life Stress and Callous-Unemotional Traits Influence Testosterone's Diurnal Rhythm: Implications for Juvenile Justice. Paper presented at the American Psychology-Law Society, New Orleans, Louisiana.

Dismukes, A. R., Johnson, M.M., Phan, Jenny., Pollak, Seth, Hanson, Jaime., Shirtcliff, Elizabeth A. (2013). Transient Stress in an Laboratory Setting Impacts the Coupling of HPA and HPG Axes During Adolescence. Data blitz presented at the Social Neuroendocrinology Pre-Conference, New Orleans, Louisiana.

Dismukes, A. R., Johnson, M.M., Vitacco, M.J., Shirtcliff, E.A. (2013). The shared role of Hypothalamic-Pituitary-Adrenal and -Gonadal hormones in the development of CU trait expression and response to life stress exposure. Paper presented to the Society for Research in Child Development, Seattle, Washington.

Johnson, M.M., Dismukes, A.R., Vitacco, M.J., Shirtcliff, E.A. (2013) Coupling between HPA and HPG hormones among incarcerated adolescents: The influence of callous-unemotional traits. Paper presented at the Society for the Scientific Study of Psychopathy, Washington, DC

Johnson, M.M., Dismukes, A.R., Vitacco, M.J., Shirtcliff, E.A. (2012). Coupling between hypothalamic-pituitary-adrenal and -gonadal axes among incarcerated adolescents: The influence of psychopathic traits and histories of abuse. Paper presented at the Society for Physiological Research, New Orleans, Louisiana.

## Poster Presentations<sup>4</sup>

Johnson, M.M., Dismukes, A.R., Vitacco, M.J., Shirtcliff, E.A., (2018) Sex Differences in Diurnal Cortisol, Testosterone and DHEA Functioning in Incarcerated Adolescents. Poster presented at the International Society for Psychoneuroendocrinology, Irvine, CA

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<sup>4</sup>12 total

Topolski, N.T., Dismukes, A.R., Merrill, L.M., Theall, K.T., Drury, S.S., (2016) Developmental trajectory of Cortisol Reactivity in typically developing Infants at 4 and 12 months of age. Poster submitted to the International Congress of Infant Studies, New Orleans LA

Hatch, G., Dismukes, A.R., Middleton, M.M., Theall, K.T., Drury, S.S., (2016) Prenatal maternal stress impact on later infant social engagement. Poster submitted to the Southern Society for Pediatric Research, New Orleans LA

Wiggins, H., Dismukes, A.R., Shirtcliff, Elizabeth., Drury, S.S., (2015). Peak Reactivity of the HPA and HPG Axes in Adolescence. Poster presented at Tulane University Health Sciences Research Days, New Orleans, LA.

Dismukes, A. R., Meyer, V.J., Shirtcliff, E.A., Theall, K.T., Drury, S.S. (2015). Exploration of the 'anti-aging hormone' Dehydroepiandrosterone (DHEA) and Telomere Length in Youth. Poster presented at Tulane University Health Sciences Research Days, New Orleans, LA.

Peres, J.C., Phan, J.M., Dismukes, A.R., Lee, Y., Mocevic, O., Meyer, V. J. Shirtcliff, E.A. (2015). Negative Affect Dampens Cortisol Reactivity to a Laboratory Stressor. Poster presentation at Society for Research in Child Development, Philadelphia, PA.

Dismukes, A. R., Johnson, M., Vitacco, M.J., Shirtcliff, E.A., (2014) Callous-Unemotional Traits and Early Life Stress Impact Testosterone's Diurnal Rhythm. Poster presented at the International Society for Psychoneuroendocrinology, Montreal, Canada.

Lee, Y., Dismukes, A. R., Vitacco, M.J., Shirtcliff, E.A. (2014). Diurnal rhythm of testosterone with callous traits among incarcerated adolescent males. Poster presented at the Society for Research on Adolescence, Austin, TX.

Iturra, F., Phan, J.M., Dismukes, A.R., Shirtcliff, E.A. (2013). Attachment level modifies testosterone reactivity in a laboratory setting. Poster Presented at the InnovateUNO, Undergraduate Research Council, New Orleans, LA.

Vitacco, M.J., Shirtcliff, E.A., Brieman, C., Dismukes, A.R., (2012, March). Beyond physiological hypoarousal: The role of context and callous-unemotional traits in incarcerated adolescent males. Poster presented at the American Psychology and Law Society, San Juan, Puerto Rico.

<sup>3</sup>Dismukes, A. R., Johnson, M.M., Vitacco, M.J., Shirtcliff, E.A. (2012, April). Abuse and the coupling of cortisol with testosterone and dhea in adolescent males. Poster presented at the Wisconsin Symposium on Emotion, Madison, Wisconsin.

<sup>3</sup>Johnson, M.M., Dismukes, A.R., Vitacco, M.J., Shirtcliff, E.A. (2012, April). Coregulation of HPA and HPG axes in Psychopathy. Poster presented at the Society for Behavioral Medicine, New Orleans, Louisiana.

## Teaching

### Courses Taught as Instructor of Record

<i>HDFS 276: Human Sexual Behavior</i> Enrollment: 126 Iowa State University	Spring 2018
<i>HDFS 102: Individual and Family Development, Health, and Well-being</i> Enrollment: 82 Iowa State University	Fall 2017
<i>Honors 321H: The Science of Stress</i> Enrollment: 14 (Capped at 17) Iowa State University	Fall 2016



*Psychology 1000: Introduction to Psychology*  
Enrollment: 138  
University of New Orleans

Fall 2013

## **Courses Taught as Teaching Assistant**

*HDFS 276: Human Sexuality*  
Enrollment: 320  
Iowa State University

Spring 2017

## **Guest Lectures (Graduate Level Only Included)**

Iowa State Graduate Guest Lecture, Family Theory  
Lecture Topic: Life Course Theory

Spring 2017

Iowa State Graduate Guest Lecture, Biomarkers and the Family  
Lecture Topic: Genetics and Epigenetics

Spring 2017

Tulane University Residents Lecture, Psychiatry lecture series  
Lecture Topic: Callous Unemotional Traits in Youth

Fall 2015

Iowa State Graduate Guest Lecture, Biomarkers and the Family  
Lecture Topic: Genetics and Epigenetics

Spring 2015

UNO Graduate Guest Lecture, Learning and Memory  
Lecture Topic: What does Amnesia Reveal about Memory Processes

Spring 2013

UNO Graduate Guest Lecture, Affective Neuroscience  
Lecture topic: Anger, Hate, and Rage

Spring 2012

## **Mentorship**

### **Undergraduate Students**

Florencia Iturri

University Award Winner  
Honors Thesis Supervision  
International Student Scholar  
Continued to Graduate School or Research Internship  
Co-Authored Manuscript with student  
Honors Student

Natasha Topolski

University Award Winner  
Honors Thesis Supervision  
International Student Scholar  
Continued to Graduate School or Research Internship  
Co-Authored Manuscript with student  
Honors Student

## **Other Professional Activities**

### **Ad Hoc Journal Reviewer**

Journal of Research on Adolescence

International Journal of Nursing Studies

Psychopharmacology

Developmental Psychopathology

Psychoneuroendocrinology

International Journal of Environmental Research and Public Health

Stress and Health

Journal of Child Psychology and Psychiatry Journal of the American Academy of Child and Adolescent Psychiatry

### **Professional Memberships**

American Psychological Association

American Psychology-Law Society

Society for Research on Adolescence

Society for Research in Child Development