

ABBREVIATED CURRICULUM VITA

Kai McCormack, Ph.D.
Department of Psychology
Spelman College

EDUCATION

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| Ph.D. | Developmental Psychology, University of Georgia
Dissertation: “The Effects of Maternal Maltreatment on the Behavioral and Neuroendocrine Development of the Rhesus Macaque Infant: The First Six Months” | 2001-2003 |
| M.S. | Developmental Psychology, University of Georgia
Thesis: “The Social Development of Maternally Maltreated Rhesus Macaque Infants” | 1998-2000 |
| B.A. | Psychology, Claremont McKenna College, Claremont, CA | 1991-1995 |

EMPLOYMENT HISTORY

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|---|--------------|
| Vice-Chair , Spelman College, Dept. of Psychology | 2016-present |
| Associate Professor , Spelman College, Dept. of Psychology | 2011-present |
| Affiliate Scientist , Emory University, Yerkes Primate Research Center | 2005-present |
| Assistant Professor , Spelman College, Dept. of Psychology | 2005-2011 |
| Adjunct Professor , Morehouse College, Dept. of Psychology | 2004-2005 |
| Post-Doctoral Fellow (Dr. Paul Plotsky) , FIRST program at Emory University, Dept. of Psychiatry | 2004-2005 |

AWARDS AND FUNDING

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| Associated Colleges of the South, \$12,500
“Research in Primate Behavior: The Green Monkeys of Barbados: An International Research Collaboration”: Centre College and Spelman College | 2016-2017 |
| NSF, Innovation through Institutional Integration, \$1,250,000
“Enhancing Global Research and Education in STEM at Spelman College”
Role: Principal Investigator (Co-PIs: Dr. T. Galvão, & Dr. J. Butler/Dr. M Burnett) | 2010-2016 |
| NIMH, Center Grant, \$40,828 (\$2,329,000 Total Costs)
“Early Experiences, Stress, and Neurobehavioral Development”
Role: Co-Investigator (PI: Dr. Mar Sanchez) | 2009-2015 |
| Center for Behavioral Neuroscience Venture Grant (NSF), \$21,000
“Physiological Responsiveness To Sexual Stereotypes In Music Videos And Its Association With Sexual Attitudes And Behaviors”
Role: Co-Investigator (PI: Dr. Shani Harris Peterson) | 2008-2009 |

Yerkes National Primate Research Center Venture Grant, \$150,000 “Heritability Analyses of Rhesus Macaques” Role: Principal Investigator (Co-PI: Mark Wilson)	2007-2009
Center for Behavioral Neuroscience Venture Grant (NSF), \$24, 500 “Investigating Affiliative Behavior in Rhesus Macaques: A Multi-Method Approach” Role: Principle Investigator (Co-PI: Dr. Mark Wilson)	2007-2009
Spelman College Center for Biomedical and Behavioral Research, Junior Faculty Development Award, \$51,000 “The Effects of Early Life Stress on Aggression and Impulsivity in Juvenile Rhesus Macaque Males” Role: Principal Investigator	2007-2008
Center for Behavioral Neuroscience Venture Grant (NSF), \$30,000 “The Role of Early Experience of Maternal Care and HPA-Related Genetic Polymorphisms in the Development of Infant Cortisol Reactivity: Human and Non-Human Primates” Role: Principal Investigator (Co-PI: Kathy Stansbury)	2006-2007

SCHOLARSHIP

Refereed Publications

- Howell, B.R., McMurray, S., Guzman, D. B., Nair, G., Shi, Y., **McCormack, K.**, Hu, X., Styner, M. A., & Sanchez, M.M. (2017). Maternal buffering beyond glucocorticoids: Impact of early life stress on corticolimbic circuits that control infant responses to novelty. *Social Neuroscience, 12*, 50-64.
- McCormack, K.**, Howell, B.R., Guzman, D., Villongco, C., Pears, K., Kim, H., Gunnar, M.R., & Sanchez, M.M. (2015). The development of an instrument to measure global dimensions of maternal care in rhesus macaques (*Macaca mulatta*). *American Journal of Primatology, 77*, 20-33.
- Howell, B.R., **McCormack, K.**, & Sanchez, M.M. (2015). Social buffering of stress responses in nonhuman primates: Maternal regulation of the development of emotional regulatory brain circuits. *Social Neuroscience, 10*, 512-526.
- Howell, B.R., Grand, A.P., **McCormack, K.M.**, Shi, Y., LaPrairie, J., Maestripieri, D., Styner, M.A., Sanchez, M.M. (2014). Early adverse experience increases emotional reactivity in juvenile rhesus macaques: Relation to amygdala volume. *Developmental Psychobiology, 56*, 1735-1746
- Koch, H., **McCormack, K.**, Sanchez, M.M., & Maestripieri, D. (2014). The development of the hypothalamic-pituitary-adrenal axis in rhesus monkeys: Effects of age, sex, and early experience. *Developmental Psychobiology, 56*, 86-95.
- Howell, B. R., **McCormack, K.**, Grand, A.P., Zhang, X., Maestripieri, D., Hu, X., & Sanchez, M.M. (2013). Brain white matter microstructure alterations in adolescent rhesus monkeys exposed to early life stress: Associations with high cortisol during infancy. *Biology of Mood and Anxiety Disorders, 3*, 1-14.

- Loman, M.M., Gunnar, M., Bruce, J., Dallman, M., Dozier, M., Fisher, P., Fox, N., **McCormack, K.**, Plotsky, P., Pollak, S., Sanchez, M.M., & Suomi, S. (2010). Early experience and the development of stress reactivity and regulation in children. *Neuroscience and Biobehavioral Reviews*, *34*, 867-876.
- Sanchez, M.M., **McCormack, K.**, Grand, A.P., Fulks, R., Graff, A. & Maestriperieri, D. (2010). Effects of sex and early maternal abuse on the development of hypothalamic-pituitary-adrenal function in the first 3 years of life in group-living rhesus monkeys. *Development and Psychopathology*, *22*, 45-53.
- Keen-Rhinehart, E., Haynes, J.K., Eisen, A., Eaton, D. C., & **McCormack, K.** (2009). Interactive methods for teaching action potentials, an example of teaching innovation from neuroscience postdoctoral fellows in the Fellowships in Research and Science Teaching (FIRST) program. *Journal of Undergraduate Neuroscience Education*, *7*, 74-79.
- McCormack, K.**, Newman, T.K., Higley, D., Maestriperieri, D., & Sanchez, M. (2009). Serotonin transporter gene variation, infant abuse, and responsiveness to stress in rhesus macaque mothers and infants. *Hormones and Behavior*, *55*, 538-547.
- Maestriperieri, **McCormack, K.**, D. Higley, J. D., Lindell, S. G., Newman, T. K., & Sanchez, M. (2006). Influences of parenting style on the offspring's behavior and CSF monoamine metabolites in cross-fostered and noncrossfostered rhesus macaques. *Behavioural Brain Research*, *175*, 90-95.
- Maestriperieri, D. Higley, J. D., Lindell, S. G., Newman, T. K., **McCormack, K.**, & Sanchez, M. (2006). Early maternal rejection affects the development of monoaminergic systems and adult abusive parenting in rhesus macaques. *Behavioral Neuroscience*, *120*, 1017-1024.
- McCormack, K.**, Sanchez, M. M., Bardi, M., & Maestriperieri, D. (2006). Maternal care patterns and behavioral development of rhesus macaque abused infants in the first six months. *Developmental Psychobiology*, *48*, 537-550.
- Prendergast, M. L., Podus, D., & **McCormack, K.** (1998). Bibliography on drug abuse treatment effectiveness. *Journal of Substance Abuse Treatment*, *15*, 267-270.

Non-refereed Publications

- McCormack, K.**, Togunde, D., Leggon, C., Galvao, C., Clay, K. & Burnett, M. (2017). Enhancing global research and education (G-STEM) at Spelman College. Book chapter to be published in C. Leggon & M. S. Gaines (Eds): *STEM and Social Justice: Teaching and Learning in Diverse Settings—A Global Perspective*. Springer Press.
- Togunde, D., **McCormack, K.**, Galvao, T., & Clay, K. (2015). The Spelman model for enhancing global research in the STEM disciplines. *IMPACT Magazine (Arcadia University)*, p 6-8. <http://arcadiaabroad.uberflip.com/i/508572-impact-magazine-2015>
- Sanchez, M. M., **McCormack, K.**, Maestriperieri, D. (2010). Ethological case study: Infant abuse in rhesus macaques. In C. Worthman, P. Plotsky, D. Schechter, & C. Cummings (Eds.) *Formative experiences: The interaction of caregiving, culture, and developmental psychobiology*. New York: Cambridge University Press.

McCormack, K. (2009). This is your brain, this is your brain on drugs: An investigative case. In BioQuest Curriculum Consortium (Eds.) Investigative Case Based Learning. Retrieved from [http:// bioquest.org/icbl/cases.php](http://bioquest.org/icbl/cases.php).

Recent Conference Presentations

Sanchez, M., Morin, E., Howell, B., **McCormack, K.**, Guzman, D., Earl, E., Feczko, E., Styner, M., & Fair, D. (2017). Developmental impact of adverse caregiving on socioemotional behavior and neurocircuitry in nonhuman primates. Paper presented at the biennial meeting of the Society for Research on Child Development, Austin TX.

Togunde, D; Burnett, M; Spence, C; **McCormack, K**; Williams, E. (2015). Promoting global awareness and social justice activism in undergraduate students”. Paper presented at the World Social Science Forum, Durban, South Africa.

Holmes, J., Clay, K., **McCormack, K.**, Galvao, T., Burnett, M. (2015). Global STEM Virtual Community: Communication technology for scholars before, during and after research abroad. Poster presented at the Annual Meeting of the Council for International Education and Exchange, Berlin, Germany.

McCormack, K., & Clay, K. (2014). GSTEM: Advancing international research opportunities for STEM students at Spelman College. Poster presented at the NSF Meeting of Innovation Through Institutional Integration: Improving the Undergraduate STEM Experience, Washington, DC.

Clay, K. **McCormack, K.**, Galvao, T., Togunde, D., & Butler, J. (2014). The G-STEM model for enhancing global research in the STEM disciplines. Poster presented at the Faculty Resource Network (FRN) National Symposium, San Juan, Puerto Rico.

Clay, K. **McCormack, K.**, Galvao, T., Togunde, D., & Butler, J. (2014). Global Undergraduate Research: Enhancing Knowledge. Paper presented at the National Council on Undergraduate Research (NCUR), Lexington, KY.

Clay, K. **McCormack, K.**, Galvao, T., Togunde, D., & Butler, J. (2014). Recruiting and Retaining STEM Students into International Research Experiences: Best Practices for Working with Under-Represented Groups. Presented at Georgia International Educators--Tennessee International Educators Bi-State Conference. Chattanooga, TN.

Sanchez, M.M., Guzman, D., Howell, B.R., Vratnina-Smoot, T.L., **McCormack, K.**, Shi, Y., Styner, M., Bachevallier, J., & Sharpe, D.I. (2014). Poor maternal care impacts the development of prefrontal cortex, cognitive function, and social behavior in nonhuman primates: The juvenile period. Paper presented at the Annual Meeting of the Society for Neuroscience, Washington, DC.

Howell, B., **McCormack, K.**, Guzman, D., Villongco, C., Pears, K., Kim, H., Nair, G., Hu, X., Gunnar, M. R., & Sanchez, M. (2013). Associations of different aspects of maternal care with white matter microstructure and socioemotional behavior in infant rhesus monkeys. Paper presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.

Fawcett, G.L., Johnson, Z.P., **McCormack, K.**, Wilson, M.E., Sanchez, M., & Rogers, J. (2013). Heritability of central oxytocin levels in socially housed rhesus monkeys: Associations with affiliative and aggressive behaviors. Poster presented at the Cold Spring Harbor Meeting on Behavior and Neurogenetics of Nonhuman Primates, Cold Spring Harbor, NY.

Blankson, A.N., **McCormack, K.**, Brakke, K. (2012). A practical approach to teaching psychometrics and advanced statistics. Paper presented at the Annual Meeting of the Society for the Teaching of Psychology Meeting, Best Practices: Teaching Statistics and Research Methods, Atlanta, GA.

Recent Student Sponsored Research at Regional/National Conferences

Stephens, T., Reese, C., Pierre, G., & McCormack, K. (2017). Is rank associated with the stress levels and social interactions of female green monkeys? Poster to be presented at the Annual Meeting of the Georgia Psychological Association, Atlanta, GA.

Williams, K., Kenniel, K., Lee, A., & McCormack, K. (2016), The relationship between maternal style and infant behavior in the green monkeys of Barbados. Poster presented at the Annual Biomedical Research Conference for Minority Students, Tampa, FL.

Lee, A., Williams, K., Kenniel, K., & McCormack, K. (2016). The relationship between maternal rank and infant behavior: An examination of the green monkeys of Barbados. Poster presented at the Annual Biomedical Research Conference for Minority Students, Tampa, FL.

Brinson, C., Campbell, E., Clarke, Z., & McCromack, K. (2016). The development of mother-infant interactions across the first month of life: An examination of the green monkeys of Barbados. Poster to be presented at the Annual Meeting of the Southeastern Psychological Association, New Orleans, LA.

PROFESSIONAL AFFILIATIONS

American Society of Primatologists

Society for Neuroscience

Center for Behavioral Neuroscience (CBN)

SouthEastern Psychological Association

Psi Chi National Honor Society

American Association of University Professors

TEACHING EXPERIENCE

Spelman College

PSY 202: Introduction to Psychological Science	Spring, 2016, 2017
PSY 201: Introduction to Psychological Science	Fall, 2015, 2016, 2017
PSY 370: Research in Primate Behavior: The Green Monkeys of Barbados	Summer, 2015-present
PSY 400: Psychopharmacology (co-taught)	Spring, 2015
PSY 417: Statistics in Psychology II	Spring, 2015, 2005-2010
PSY 400: Interdisciplinary Forays in Primatology (team taught)	Spring, 2014
PSY 320: Brain and Behavior	2006-2014

PSY 305: Research Methods	2005-2011
PSY 307/308: Honors Seminar (team taught)	2005-present
PSY 444: Ethical Issues in Psychological Research (co-taught)	2008
PSY 491/492: Honors Thesis Research (team taught)	2006-present

Morehouse College

PSY 202: Research & Statistics II (co-taught)	Fall, 2004
PSY 341: Animal Behavior (co-taught)	Spring, 2005

UGA (Graduate Student)

PSY 4130L: Physiological and Comparative Psychology Lab	2002-2003
PSY 2990: Research Analysis in Psychology	2001-2003
PSY 2990L: Research Analysis in Psychology Lab	1999-2001

Training Courses and Guest Lectures

Workshop on the Responsible Conduct of Research: <i>“Human subjects, live animal subjects in research, and safe laboratory practices”</i> . Spelman College.	Fall, 2012
Workshop on the Responsible Conduct of Research: <i>“Research misconduct and polices for handling misconduct”</i> . Spelman College.	Fall, 2012
PSY 101: Orientation to Psychology, <i>“Professional behavior in Psychology”</i> . Psychology Department, Spelman College	Fall, 2009 Spring, 2010
MBRS Summer Program: <i>“Research design and statistical analyses”</i> . Minority Biomedical Research Support: Research Initiative for Scientific Enhancement Program, Spelman College	Sum, 2009
MBRS Summer Program: <i>“Methods of psychophysiological data collection and design”</i> . Minority Biomedical Research Support: Research Initiative for Scientific Enhancement Program, Spelman College.	Sum, 2006-2008
PSY 450: Senior Seminar, <i>“Careers in Neuroscience”</i> . Psychology Department, Spelman College	Fall, 2005-2007
MBRS Summer Program: <i>“Research and career opportunities with non-human primates”</i> . Minority Biomedical Research Support: Research Initiative for Scientific Enhancement Program, Spelman College.	Sum, 2005

SERVICE

Spelman College and AUC Committee Service

Member, Faculty Council, Spelman College	2017-present
Director, G-STEM Program, Spelman College	2016-present

Member , Teaching Resource and Research Center, Spelman College	2014-present
Member , HHMI Student Selection Committee, Spelman College	2013-present
Member , Gordon-Zeto Committee on International Education, Spelman College	2012-present
Member , Institutional Review Board, Spelman College	2007-present
Member , Ad-Hoc Research Committee, Spelman College	2015-2016
Co-Chair/Chair , Faculty Development Committee, Spelman College	2013-2016
Co-PI , G-STEM Program, Spelman College	2010-2016
Co-Chair , Faculty Welfare Committee, Spelman College	2010-2013
Co-Chair , Student Research Day, Spelman College	Spring, 2012
Member , Quantitative Reasoning Development Committee, Spelman College	2008-2010
Co-Chair/Member , Educational Technology Committee, Spelman College	2007-2010
Member , Strategic Planning Committee, Spelman College	2007-2009
Co-Chair , Faculty Research Day, Spelman College	Fall, 2007
Interviewer , MBRS-RISE Program, Spelman College	2006-2007
Member , Undergraduate Education Committee for the AUC, Center for Behavioral Neuroscience	2005-2009

Psychology Department Service

Member , Faculty Search Committees, Psychology Department, Spelman College	2007-present
Thesis Advisor , Department of Psychology, Spelman College	2005-present
Member , Honors Seminar (PSY 307/308) Revision Committee	2009-2011
Member , Experimental Psychology Lab (PSY 305L) Update Committee	2008-2009
Member , Psychology Student Advising Committee	2007-2008
Secretary , Psychology Departmental Meetings, Spelman College	2005-2006

Spelman College and AUC Advising Service

Faculty Advisor , NuRhoPsi, Atlanta University Center	2014-present
Faculty Advisor , Sophomores and Juniors, Department of Psychology	2006-present
Faculty Advisor , Women in Neuroscience Student Club (WINS)	2006-2014
Faculty Advisor , Incoming Freshman	2007-2008

Scholarly Service

Member , Research and Development Grant Review Committee, American Society of Primatologists	2015-present 2004-2010
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Co-Chair , Research and Development Grant Review Committee, American Society of Primatologists (ASP)	2010-2014
Manuscript Reviewer , Behavioral Processes	2015
Manuscript Reviewer , Hormones and Behavior	2014
Manuscript Reviewer , American Journal of Physical Anthropology	2014
Manuscript Reviewer , Biological Psychiatry	2009-2014
Manuscript Reviewer , Developmental Psychopathology	2009-2013
Session Chair , American Society of Primatologists Annual Meeting	2009-2012
Abstract Reviewer , Southeastern Psychological Association Annual Meeting	2008-2013
Abstract Reviewer , Undergraduate Poster Sessions, SEPA Annual Meeting	2008-2012
Manuscript Reviewer , Journal of Developmental Processes	2006

Professional Service

Council Member , Atlanta Chapter of the Society for Neuroscience	2011-present
Teaching Mentor , FIRST Program, Emory University (14 post-doctoral fellows)	2006-present
Judge , BRAIN research program, Center for Behavioral Neuroscience	2004-present
Reader , Psychology Advanced Placement Exams, College Board	2008-2014
Organizer , Brain Bee Annual High School Competition in Neuroscience	2010