

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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|---|--------------|
| Chair , Spelman College, Dept. of Psychology | 2021-present |
| Vice-Chair , Spelman College, Dept. of Psychology | 2016-2021 |
| Interim Chair , Spelman College, Dept. of Psychology | Spring, 2019 |
| Associate Professor , Spelman College, Dept. of Psychology | 2011-present |
| Director/Co-Director, G-STEM Program , Spelman College | 2010-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 |

SCHOLARSHIP

Refereed Publications

- DeLeon, D., Nishitani, S., Walum, H., **McCormack, K.M.**, Rogers, J., Wilson, M.E., Smith, A.K., Young, L.J., Sanchez, M.M. (2020). Methylation of OXT and OXTR genes, central oxytocin, and social behavior in female rhesus macaques. *Hormones and Behavior*. DOI: 10.1016/j.yhbeh.2020.104856.
- Wakeford, A.G.P., Kochoian, B., Siebert, E.R., Katznelson, S., Morin, E.L., Howell, B.R., **McCormack, K.M.**, Howell, L.L., Sanchez, M.M., Nader, M.A. (2020). Effects of early life stress on cocaine intake in male and female rhesus macaques. *Psychopharmacology*, 237, 3583-3589.

- Wakeford, A., Morin, E.L., Bramlett, S.N., Howell, B.R., Liu, Y., Meyer, J.S., **McCormack, K.**, Sanchez, M.M. & Howell, L. (2019). Effects of early life stress on cocaine administration in post-pubertal male and female rhesus macaques. *Psychopharmacology*, 236, 2785-2796.
- Winfield, L., **McCormack, K.**, Shaw, T. (2019) Using iSpartan in the undergraduate organic chemistry course to support visual literacy and comprehension of alkane formations. *The Journal of Chemical Education*, 96, 89-92.
- 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. & Maestripieri, 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.
- McCormack, K.**, Newman, T.K., Higley, D., Maestripieri, 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.
- Maestripieri, **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.

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Maestriperi, 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., & Maestriperi, 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

Harris, S., **McCormack, K.**, Farris-Watkins, A., & Brakke, K. (in press). Teaching Introductory Psychology in a Historically Black College/Univerisity for Women: Spelman College. Book chapter in American Psychological Association: Transforming Introductory Psychology: Expert Advice on Teaching Training, Course Design, and Student Success. Washington DC: APA.

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 published in C. Leggon & M. S. Gaines (Eds): STEM and Social Justice: Teaching and Learning in Diverse Settings—A Global Perspective. New York: 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.**, Maestriperi, 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. <http://bioquest.org/icbl/cases.php>.

Recent Student Sponsored Research at Regional/National Conferences

*Student(s) won an award for presentation.

Brown, J., & McCormack, K. (2018). The relationship between stress and rank in female green monkeys. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, IN.

Bruce-Thomas, X., & McCormack, K. (2018). The relationship between rank and social behavior in green monkeys. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, IN.

Khepura, S., & McCormack, K. (2018). The relationship between maternal styles and infant behavior in green monkeys. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, IN.

*Kimble, E., & McCormack, K. (2018). The relationship between maternal style and infant stress-related behavior. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, IN.

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- Marvel, A., & McCormack, K. (2018). The relationship between green monkeys and tourists through the lens of ethnoprimateology. Poster presented at the Annual Biomedical Research Conference for Minority Students, Indianapolis, IN.
- Woodruff, K., & McCormack, K. (2018). The relationship between maternal stress and infant social behavior: An examination of the Barbados green monkey. Poster presented at the annual meeting of the South Eastern Psychological Association, Charleston, SC.
- Brown, A., & McCormack, K. (2017). The relationship between maternal styles and infant social behavior in green monkeys. Poster presented at the Annual Biomedical Research Conference for Minority Students, Phoenix, AZ.
- Jackson, A., & McCormack, K. (2017). Is there a relationship between maternal rank and infant social behavior? Poster presented at the Annual Biomedical Research Conference for Minority Students, Phoenix, AZ.
- McIntosh, N., & McCormack, K. (2017). Rank influence on the social interactions of green monkeys and infants. Poster presented at the Annual Biomedical Research Conference for Minority Students, Phoenix, AZ.
- Molette, P., & McCormack, K. (2017). Do green monkeys engage in reconciliation? Poster presented at the Annual Biomedical Research Conference for Minority Students, Phoenix, AZ.
- 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.
- Washington, K., & McCormack, K. (2017). Vocalizations and rank in the Barbados green monkey. Poster presented at the Annual Biomedical Research Conference for Minority Students, Phoenix, AZ.
- 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., & McCormack, 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

Center for Behavioral Neuroscience (CBN)

South Eastern Psychological Association

Psi Chi National Honor Society

American Association of University Professors

TEACHING EXPERIENCE**Spelman College**

PSY 400: Special Topics Course: Locked in the Past, A Multifaceted Study of Post-traumatic Stress Disorder (PTSD) (co-developed and co-taught with Dr. Cortnie Hartwig, FIRST fellow, Emory University)	Spring, 2020
PSY 370: Research in Primate Behavior: The Green Monkeys of Barbados (developed course with Dr. Melissa Burns-Cusato, Centre College)	Summer, 2015-present
PSY 202: Introduction to Psychological Science II	Spring, 2016-present
PSY 201: Introduction to Psychological Science I	Fall, 2015-present,
PSY 400: Psychopharmacology (co-developed and co-taught with Dr. Matthew Young, FIRST fellow, Emory University)	Spring, 2015
PSY 417: Statistics in Psychology II	Spring, 2015, 2005-2010
PSY 400: Interdisciplinary Forays in Primatology (co-developed and co-taught with Dr. Karen Brakke, Spelman College, Dr.'s Darby Proctor & Sarah Zohdy, FIRST fellows, Emory University)	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 491/492: Honors Thesis Research (team taught)	2006-present

Morehouse College

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

SERVICE**Scholarly Service**

Member , Research and Development Grant Review Committee, American Society of Primatologists	2015-present 2004-2010
Co-Chair , Research and Development Grant Review Committee, American Society of Primatologists	2010-2014
Manuscript Reviewer , Development and Psychopathology	2009, 2018-19
Manuscript Reviewer , American Journal of Primatology	2017-present
Manuscript Reviewer , Behavioral Processes	2015
Manuscript Reviewer , Hormones and Behavior	2014
Manuscript Reviewer , American Journal of Physical Anthropology	2014

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Panel Reviewer, NSF Innovation through Institutional Integration grant proposals 2012
Manuscript Reviewer, Biological Psychiatry 2009-2014
Abstract Reviewer, Southeastern Psychological Association Annual Meeting 2008-2013

Professional Service

Member, NeuroCase External Advisory Board (NSF grant, Emory University) 2017-present
Council Member, Atlanta Chapter of the Society for Neuroscience 2011-present
Teaching Mentor, FIRST Program, Emory University (16 post-doctoral fellows) 2006-present
Reader, Advanced Placement Exams, College Board 2008-2021
Judge, BRAIN research program, Center for Behavioral Neuroscience 2004-2010
Organizer, Brain Bee Annual High School Competition in Neuroscience 2010

Spelman College and AUC Service

Director, G-STEM Program, Spelman College 2016-present
Faculty Advisor, NuRhoPsi, Atlanta University Center 2014-present
Member, Institutional Review Board, Spelman College 2007-2021
Member, Faculty Council, Spelman College 2017-2019
Co-Chair/Chair, Faculty Development Committee, Spelman College 2013-2016
Member, HHMI Student Selection Committee, Spelman College 2013-2015
Member, Gordon-Zeto Committee on International Education, Spelman College 2012-2016
Co-PI, G-STEM Program, Spelman College 2010-2016
Co-Chair, Faculty Welfare Committee, Spelman College 2010-2013
Co-Chair, Spelman Research Day, Spelman College Spring, 2012
Co-Chair/Member, Educational Technology Committee, Spelman College 2007-2010