

Amrita Kaimal

Department of Veterinary Biosciences and Diagnostic Imaging
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EDUCATION

Ph.D., Neuroscience August 2016 - Present
Department of Veterinary Biosciences and Diagnostic Imaging Athens, GA
University of Georgia, Biomedical and Health Sciences Institute

Bachelor of Science, Psychology with a minor in Biology August 2010 - May 2014
Department of Psychology Atlanta, GA
Georgia Institute of Technology Major GPA: 3.64

HONORS & AWARDS

Graduate Student Travel Award (\$600), *UGA Biomedical & Health Sciences Institute* 2018
Experimental Biology Meeting Travel Award (\$250), *American Association of Anatomists* 2018
Graduate Student Travel Award (\$450), *UGA Biomedical & Health Sciences Institute* 2018
President's Undergraduate Research Award (\$1,500), *Georgia Tech* Spring 2013
Dean's List, *Georgia Tech College of Sciences* 2010, 2012-2014

RESEARCH EXPERIENCE

University of Georgia Athens, GA
Neuroendocrine Research Laboratory College of Veterinary Medicine
Graduate Research Assistant January 2017 - Present
Supervisors: Dr. Sheba MohanKumar and Dr. P.S. MohanKumar
Examining sex differences in the effects of prenatal exposure to endocrine disrupting chemicals followed by subsequent exposure to estradiol and stress in adulthood on behavior and neurotransmitter systems in rats. Primary techniques used include behavioral paradigms (open field, elevated plus maze, shock probe defensive burying, novel object recognition), brain sectioning and microdissection, HPLC, and radioimmunoassays.

Emory University / Grady Memorial Hospital Atlanta, GA
Grady Trauma Project Emory School of Medicine
Research Interviewer August 2015 – June 2016
Supervisor: Dr. Negar Fani
Investigated cognitive and emotional dysfunctions in an inner city, low income population affected by PTSD and trauma. Main duties involved patient recruitment, administration of neuropsychological tests and MRI scans, management of data (neuropsychological, DTI, and MRI), and training research assistants on lab procedures.

Georgia Institute of Technology Atlanta, GA
Cognitive Neuroscience of Aging Laboratory Center for Advanced Brain Imaging
Research Assistant February – August 2015

Lab Director: Dr. Scott Moffat

Assisted with research investigating the effects of age and hormones on the neural systems supporting human spatial memory. Duties involved recruiting participants and training undergraduate research assistants on lab procedures.

Georgia Institute of Technology
Cognitive Neuroscience at Tech Research Laboratory

Atlanta, GA
Center for Advanced Brain Imaging
2013-2014

Research Assistant

Lab Director: Dr. Eric Schumacher

Conducted senior thesis project examining the relationship between task switching, cognitive flexibility, and attention. Assisted with a multi-site/multi-phase IARPA “brain-training” study of a large subject pool (100+ participants) and trained undergraduate research assistants on lab techniques including tDCS and fMRI.

Emory University
The Rainnie Neurophysiology Lab

Atlanta, GA
Yerkes National Primate Research Center
May – August 2013

Volunteer Research Assistant

Lab Director: Dr. Donald Rainnie; Supervisor: Dr. Andrea Crowell

Assisted with research investigating deep brain stimulation in patients with depression. Techniques used included T-maze behavioral tests and shock stress experiments in rats.

Georgia Institute of Technology
Center for Integrative Genomics

Atlanta, GA
School of Biology
2011-2013

Undergraduate Research Assistant

Lab Director: Dr. Gregory Gibson

Examined the morphology and heritability of facial expressions and features. Main duties involved profiling facial expressions using 3D Imaging technology and analyzing data using JMP Genomics statistical software to quantify variability in facial expression.

TEACHING EXPERIENCE

Laboratory Instructor for Anatomy and Physiology II, *University of Georgia* Aug. 2017 – Dec. 2018
Teaching Assistant for Psychopharmacology, *University of Georgia* Aug. 2019 – Dec. 2019
Teaching Assistant for Research Analysis, *University of Georgia* Jan. 2020 – May 2020

PUBLISHED RESEARCH ABSTRACTS

Bou Dagher, J., Campbell, E.J., **Kaimal, A.**, Hahn, C., Enriquez, J., Almanshi, M.H., Tran, D., Laurent, C., Bacak, C., Cambric, C., Spivey, J.H., Buechter, H.E., Chuang, Y.J., MohanKumar, S.M., MohanKumar, P.S. *Independent and combined effects of bisphenol A and diethylhexyl phthalate on gestational outcomes and offspring development in Sprague-Dawley rats.* The FASEB Journal, 2020.

Kaimal, A., Hooversmith, J.M., Almanshi, M.H., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. *Region-specific effects of the exposome on brain monoamine levels in female rats.* Journal of the Endocrine Society, 2020.

Kaimal, A., Hooversmith, J.M., Almansi, M.H., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. *Prenatal EDC exposure followed by chronic treatment with estradiol affects brain monoamine levels in female rats.* The FASEB Journal, 2019. **33**(1).

Kaimal, A., Cherry, A.D., Martin, N.M., Buechter, H.E., Hoover-Smith, J.M., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. *Sex differences in the effects of prenatal exposure to low doses of endocrine disruptors on stress-related behavior.* The FASEB Journal, 2018. **32**(1).

POSTER PRESENTATIONS

Bou Dagher, J., Campbell, E.J., **Kaimal, A.**, Hahn, C., Enriquez, J., Almansi, M.H., Tran, D., Laurent, C., Bacak, C., Cambric, C., Spivey, J.H., Buechter, H.E., Chuang, Y.J., MohanKumar, S.M., MohanKumar, P.S. (April, 2020). *Independent and combined effects of bisphenol A and diethylhexyl phthalate on gestational outcomes and offspring development in Sprague-Dawley rats.* Poster presented at the 132nd annual Experimental Biology meeting, San Diego, CA.

Kaimal, A., Hooversmith, J.M., Almansi, M.H., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. (March, 2020). *Region-specific effects of the exposome on brain monoamine levels in female rats.* Poster presented at the 102nd annual meeting of the Endocrine Society, San Francisco, CA.

Kaimal, A., Hooversmith, J.M., Almansi, M.H., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. (April-May, 2019). *Prenatal EDC exposure followed by chronic treatment with estradiol affects behavior and brain dopamine levels in female rats.* Poster presented at the 131st annual Experimental Biology meeting, Orlando, FL and the 2nd annual Southeastern and Greater Atlanta Chemical Biology Symposium, Athens, GA.

Kaimal, A., Hooversmith, J.M., Cherry, A.D., Martin, N.M., Buechter, H.E., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. (November, 2018). *Effects of prenatal exposure to endocrine disruptors and chronic exposure to estradiol in adulthood on stress-related behavior in female rats.* Poster presented at the 48th annual meeting of the Society for Neuroscience, San Diego, CA.

Kaimal, A., Cherry, A.D., Martin, N.M., Buechter, H.E., Hoover-Smith, J.M., Holmes, P.V., MohanKumar, S.M., MohanKumar, P.S. (April, 2018). *Sex differences in the effects of prenatal exposure to low doses of endocrine disruptors on stress-related behavior.* Poster presented at the 130th annual Experimental Biology meeting, San Diego, CA.

MohanKumar, P.S., Campbell, E.J., **Kaimal, A.**, Bou Dagher, J., Almond, A., Tran, D., Chuang, Y.J., Kianian, R., Buechter, H.E., MohanKumar, S.M. (March, 2018). *Impact of prenatal exposure to low doses of bisphenol-A, bisphenol-S, and bisphenol-F on offspring development: Focus on sex differences.* Poster presented at the 100th annual meeting of the Endocrine Society, Chicago, IL.

MohanKumar, S.M., Campbell, E.J., Bou Dagher, J., Almond, A., Tran, D., **Kaimal, A.**, Chuang, Y.J., Kianian, R., Buechter, H.E., MohanKumar, P.S. (March, 2018). *Impact of prenatal exposure to a combination of bisphenol-A and diethyl hexyl phthalate on rat development.* Poster presented at the 100th annual meeting of the Endocrine Society, Chicago, IL.

Kaimal, A., Hoover-Smith, J.M., Cherry, A.D., Holmes, P.V., MohanKumar, P.S., MohanKumar, S.M. (October, 2017). *Effects of prenatal exposure to low doses of Bisphenol A (BPA) and di(2-ethylhexyl) phthalate (DEHP) in combination with predator scent stress exposure in adulthood on stress-related*

behavior in male rats. Poster presented at the 2017 Science of Veterinary Medicine Symposium, Athens, GA.

Challa, S., **Kaimal, A.**, Fani, N. (April, 2017). *Neuropsychological profiles of dissociation in the context of emotion*. Poster presented at the 8th annual meeting of the Anxiety and Depression Association of America, San Francisco, CA.

Tiwary, N., **Kaimal, A.**, Challa, S., Surapaneni, S., Bradley, B., Jovanovic, T., Fani, N. (May, 2016). *FKBP5 polymorphism associations with cognitive performance and emotion recognition*. Poster presented at the 71st annual meeting of the Society of Biological Psychiatry, Atlanta, GA.

Challa, S., **Kaimal, A.**, Amos, R., Tiwary, N., Lott, A., Surapaneni, S., Bradley, B., Jovanovic, T., Fani, N. (April, 2016). *Emotion recognition and facial memory in PTSD: Associations with PTSD subtypes*. Poster presented at the 7th annual meeting of the Anxiety and Depression Association of America, Philadelphia, PA.

Godwin, C., Hunter, M., Bezdek, M., Lieberman, G., Martin, N., Kumar, A., **Kaimal, A.**, Bell, B., Jones, A., Trumbo, M., Coffman, B., McCallion, E., Armenta, M., O'Sickley, A., Brown, D., Roos, C., Robinson, S., Combs, A., Witkiewitz, K., Clark, V., Schumacher, E. (April, 2016). *Large-scale resting-state network correlations predict mind wandering tendencies*. Poster presented at the 23rd annual meeting of the Cognitive Neuroscience Society, New York, NY.