

# Amrita Kaimal

Biomedical and Translational Sciences Institute  
University of Georgia, Athens, GA  
amrita.kaimal25@uga.edu  
770.375.8575

## EDUCATION

---

**Ph.D., Neuroscience** August 2016 - Present  
Biomedical and Translational Sciences Institute Athens, GA  
University of Georgia

**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

---

Summer Research Grant (\$1,447), *UGA Graduate School* 2021  
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 Student Researcher January 2017 - Present  
Principal Investigators: Dr. Sheba MohanKumar and Dr. P.S. MohanKumar  
Examining sex differences in the effects of prenatal exposure to plasticizers (Bisphenol A, S, and F and Diethylhexyl Phthalate) on stress-related behaviors, brain monoamines, and hormones 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 radioimmunoassay.

**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**  
Research Assistant

Atlanta, GA  
Center for Advanced Brain Imaging  
2013-2014

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**  
Volunteer Research Assistant

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

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**  
Undergraduate Research Assistant

Atlanta, GA  
School of Biology  
2011-2013

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

---

**Teaching Assistant** for PSYC 3980 Research Design, *UGA* Aug. 2020-May 2021  
**Teaching Assistant** for PSYC 3990 Research Analysis, *UGA* Jan.-May 2020  
**Teaching Assistant** for PSYC 5850 Psychopharmacology, *UGA* Aug.-Dec. 2019  
**Laboratory Instructor** for CBIO 2210 Anatomy and Physiology II, *UGA* Aug. 2017-Dec. 2018

## PUBLICATIONS

---

**Kaimal, A.**, Al Mansi, M.H., Bou Dagher, J., Pope, C., Varghese, M.G., Rudi, T.B., Almond, A.E., Cagle, L.A., Beyene, H.K., Bradford, W.T., Whisnant, B.B., Bougouma, B.D.K., Rifai, K.J., Chuang, Y.J., Campbell, E.J., Mandal A., MohanKumar, P.S., MohanKumar, S.M.J. (2021). "Prenatal exposure to bisphenols affects pregnancy outcomes and offspring development in rats." *Chemosphere* **276**: 130118.

Bou Dagher, J., Hahn-Townsend, C.K., **Kaimal, A.**, Al Mansi, M.H., Enriquez, J.E., Tran, D.G., Laurent, C.R., Bacak, C.J., Buechter, H.E., Cambric, C., Spivey, J., Chuang, Y.J., Campbell, E.J., Mandal A., MohanKumar, P.S., MohanKumar, S.M.J. (2021). "Independent and combined effects of Bisphenol A and Diethylhexyl Phthalate on gestational outcomes and offspring development in Sprague-Dawley rats." *Chemosphere* **263**: 128307.

## **PUBLISHED RESEARCH ABSTRACTS**

---

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. *Independent and combined effects of bisphenol A and diethylhexyl phthalate on gestational outcomes and offspring development in Sprague-Dawley rats.* The FASEB Journal, 2020. **34**(1).

**Kaimal, A.**, Hooversmith, J.M., Almansi, 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. **4**(1).

**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., Almansi, M.H., **Kaimal, A.**, Rzepka, K., Czaja, K., Almond, A.E., Bougouma, B.D.K., Campbell, E.J., MohanKumar, P.S., MohanKumar, S.M.J. (April, 2021). *Maternal exposure to a mixture of Bisphenol A and Diethyl Hexyl Pthalate predisposes female offspring to growth retardation and metabolic dysfunction in adulthood.* Poster presented at the 133<sup>rd</sup> annual Experimental Biology meeting.

Almansi, M.H., Chuang, Y.J., **Kaimal, A.**, Jeyaraj N.A., MohanKumar, P.S., MohanKumar, S.M.J. (April, 2021). *Prenatal exposure to bisphenols affects blood pressure and hormone levels in male and female offspring.* Poster presented at the 133<sup>rd</sup> annual Experimental Biology meeting.

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 132<sup>nd</sup> 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 102<sup>nd</sup> 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 131<sup>st</sup> annual Experimental Biology meeting, Orlando, FL and the 2<sup>nd</sup> 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 48<sup>th</sup> 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 130<sup>th</sup> 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 100<sup>th</sup> 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 100<sup>th</sup> 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 8<sup>th</sup> 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 71<sup>st</sup> 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 7<sup>th</sup> 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 23<sup>rd</sup> annual meeting of the Cognitive Neuroscience Society, New York, NY.