**Aubrey M. Kelly, Ph.D.**

Associate Professor

Department of Psychology, Behavioral and Systems Neuroscience Program

Emory University

**CONTACT**

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**RESEARCH INTERESTS**

Behavioral neuroscience; neuroplasticity; social behavior; evolution; individual and species differences in behavior; development of the social brain; rapid modulation of social behavior

**EDUCATION**

2014 Ph.D. in Biology and Neuroscience, Indiana University, Bloomington

2007 B.A. in Psychology (*summa cum laude*), University of California, San Diego

**EMPLOYMENT**

2024- *Associate Professor*

Emory University, Department of Psychology

2018-2024 *Assistant Professor*

Emory University, Department of Psychology

2014-2018 *Postdoctoral Fellow*

Cornell University, Department of Psychology

Supervisor: Alexander G. Ophir

2015 *Faculty*

Marine Biological Labs at Woods Hole Research Center

Neural Systems and Behavior Summer Course

2008-2014 *Graduate Student*

Indiana University, Department of Biology

Supervisor: James L. Goodson

2005-2008 *Research Assistant*

University of California at San Diego, Department of Psychology

Supervisor: James L. Goodson

2006-2007 *Research Assistant*

University of California at San Diego, Department of Biology

Supervisor: James C. Nieh

**GRANTS**

Current Research Support

National Science Foundation Kelly, AM (PI) 2023-2027

IOS-2310626 $1,265,579

*Title:* Dynamic hypothalamic facilitation of group cohesion

National Science Foundation Kelly, AM (co-PI) 2025-2027

IOS-2421958 $421,043

*Title:* MCA: Advancing understanding of neural mechanisms of behavior in wild songbirds

using brain omics and gene manipulation

Completed Research Support

Emory University Research Committee – Regular Award Kelly, AM (PI) 2023-2024

$29,919

*Title:* Oxytocin-mediated newcomer acceptance into an established group

Klingenstein-Simons Foundation Fellow in Neuroscience Kelly, AM (PI) 2019-2022

00083041 $225,000

*Title:* The African spiny mouse as a model for sociality

CTSN/Conte Pilot Project Grant Young, LJ. (PI); Kelly, AM (awardee) 2019-2020

P50MH100023 $20,000

*Title:* The African spiny mouse as a model for sociality

NIH/NICHD Kelly, AM. (PI) 2014-2017

F32 HD081959 $154,662

*Title*: Impact of early life family structure on behavior, nonapeptide systems, and the epigenome of offspring and mothers.

Advisee Grants

NSF/BIO Wallace, KJ. (PI); Kelly, AM (sponsor) 2021-2024

Postdoctoral Research Fellowship in Biology $207,000

Competitive Area: Broadening Participation of Groups Underrepresented in Biology

*Title*: A comparative investigation of the developmental origins and neuromolecular underpinnings of cognitive styles

DOD/ARO Fricker, BF. (PI); Kelly, AM (sponsor) 2021-2024

National Defense Science and Engineering Graduate Fellowship Award $123,800

*Title*: Neural mechanisms of group dynamics

**PUBLICATIONS (reversed chronological order)**

(Φ indicates undergraduate student)

*A. In Preparation or Submitted:*

48. **Kelly A.M.** Living in large groups: physiological implications of evolving a highly prosocial vs.

socially tolerant phenotype. (In Prep for *Hormones and Behavior*)

47. Roshko V.C. Φ, Gose N.A., and **Kelly A.M.** Inhibition of the lateral hypothalamus emboldens

female spiny mice to rapidly join a new group of novel peers

(In Prep for *Communications Biology*)

46. Esquilin-Rodriguez C.J., Fricker B.A., and **Kelly A.M.** Oxytocin neural responses distinguish

social novelty from familiarity but not kin from non-kin (In Prep for *Frontiers in Behavioral*

*Neuroscience*)

45. Fricker B.A., Boender A.J., Young L.J., and **Kelly A.M.** Not just for bonding: Nucleus

accumbens oxytocin receptors facilitate huddling with strangers and feeding (Under review at

*iScience*)

*B. Published:*

44. Fricker B.A., Murugan M., Seifert A.W., and **Kelly A.M.** (2024) Cingulate to septal circuitry facilitates group size preference in a communal mammal. *Current Biology*, 34, 1-12.

43. Fricker B.A., Jiang J. Φ, Dowling M. Φ, Esquilin-Rodriguez C.J., and **Kelly** **A.M.** (2024)

Hypothalamic vasopressin neural densities are higher in male Mongolian gerbils after

separation from a pair bond partner and may facilitate behavior to form a new bond.

*Behavioral Brain Research* 473, 115181.

***Promoted to Associate Professor with Tenure at Emory August 2024 (above)***

42. Wallace K.J., Dupeyron S.Φ, Li M.Φ, and **Kelly A.M.** (2023) Early life social complexity shapes

adult neural processing in the communal spiny mouse *Acomys cahirinus*.

*Psychopharmacology,* https://doi.org/10.1007/s00213-023-06513-5.

41. Fricker B.A. and **Kelly A.M.** (2023) From grouping and cooperation to menstruation: Spiny

mice (*Acomys cahirinus*) are an emerging model for sociality and beyond. Invited for Special

Issue: Alternative Animal Models at *Hormones and Behavior*, 158, 105462.

40. Fricker B.A., Ho D., Seifert, A.W., and **Kelly A.M.** (2023) Biased brain and behavioral

responses in a communally breeding species. *Nature’s Scientific Reports*, 13:17040.

39. **Kelly A.M.** Advancements in the study of neural mechanisms underlying mammalian grouping

behavior. (2023) Invited for Special Issue: Editors’ Showcase – Social Behavior and

Communication. *Frontiers in Ethology*, 2:1273613.

38. **Kelly A.M.** and Thompson R.R. (2023) Testosterone facilitates nonreproductive, context

appropriatepro- and anti-social behavior in male and female Mongolian gerbils. *Hormones* *and*

*Behavior,*156, 105436.

37. Taylor, J.H., Campbell N.Φ, Powell J.M., Albers H.E. and **Kelly A.M.** (2023) Distribution of

vasopressin 1a and oxytocin receptor binding in the basal forebrain and midbrain of the male

and female Mongolian gerbil (*Meriones unguiculatus*). *Neuroscience*, 522, 33-41.

36. Boender A.J., Boon M., Albers H.E., Eck S.R., Fricker B.A., **Kelly A.M.,** LeDoux J.E., Motta

S.C., Shrestha S., Taylor J.H., Trainor B.C., Triana-Del Rio R., and Young L.J. (2023) An AAV

CRISPR/Cas9-strategy for gene editing across divergent rodent species: targeting neural

oxytocin receptors as a proof of concept. *Science Advances,* 9, 22.

35. Wallace K.J.†, Chun E.K. †, Manns, J.R., and Ophir A.G. ¥, and **Kelly A.M.¥** (2023) A test of the

Social Behavior Network reveals differential patterns of neural responses to social novelty in

bonded, but not non-bonded, male prairie voles. *Hormones and Behavior*, 152, 105362.

† indicates shared first authorship ¥ indicates shared anchor authorship

34. Fricker B.A., Roshko V.C.Φ, Jiang J.Φ, and **Kelly A.M.** (2023) Partner separation rescues pair

bond-induced decreases in hypothalamic oxytocin neural densities. *Nature’s Scientific Reports,*

*13, Article number: 4835*

33. Powell J.M., Garvin M.M.Φ, Lee, N.S.Φ, and **Kelly A.M.** (2022) Behavioral trajectories of aging

prairie voles (*Microtus ochrogaster*): Adapting behavior to social context wanes with advanced

age. *PLOS ONE* 17:11 e0276897.

32. Powell J.M., Inoue K., Wallace K.J., Seifert A.W., Young L.J., and **Kelly A.M.** (2022)

Distribution of vasopressin 1a and oxytocin receptor protein and mRNA in the basal forebrain

and midbrain of the spiny mouse (*Acomys cahirinus*). *Brain Structure and Function*

doi: 10.1007/s00429-022-02581-z

31. Loveland J.L., Giraldo-Deck L.M., and **Kelly A.M.** (2022) How inversion variants can shape

neural circuitry: Insights from the three-morph mating tactics of ruff. *Frontiers in*

*Physiology* 13:1011629.

30. **Kelly A.M.**, Fricker B.A., and Wallace K.J. (2022) Protocol for multiplex fluorescent

immunohistochemistry in free-floating rodent brain tissues. *Cell Press STAR*

*Protocols* 4, 101672.

29. **Kelly A.M**., Gonzalez-Abreu J.A., and Thompson R.R**.** (2022) Beyond sex and aggression:

Testosterone rapidly matches behavioral responses to social context and tries to predict the

future. *Proceedings of the Royal Society B* 289,1976.

28. Gonzalez-Abreu J.A., Rosenberg A.Φ, Fricker B.A., Wallace K.J., Seifert A.W., and **Kelly A.M.**

(2022) Species-typical group size differentially influences social reward neural circuitry during

nonreproductive social interactions. *iScience*, 25(5), 104230.

27. **Kelly A.M.** (2022) A consideration of brain networks modulating social behavior. *Hormones*

*and Behavior* 141, 105138.

26. Fricker B.A., Seifert A.W., and **Kelly A.M.** (2021) Characterization of social behavior in the spiny mouse, *Acomys cahirinus*. *Ethology* 00, 1-15.

25. **Kelly A.M.** and Seifert A.W. (2021) Distribution of vasopressin and oxytocin neurons in the basal forebrain and midbrain of spiny mice (*Acomys cahirinus*), *Neuroscience*, 468, 16-28.

24. Finton C.J., **Kelly A.M.**, and Ophir A.G. (2021) Support for the parental practice hypothesis: subadult prairie voles exhibit similar behavioral and neural profiles when alloparenting kin and non-kin, *Behavioral Brain Research*, 417, 113571.

23. **Kelly A.M.**, Ong J.Φ, Witmer R.A.Φ, Ophir A.G. (2020) Paternal deprivation impairs social behavior putatively via epigenetic modification to lateral septum vasopressin receptor. *Science Advances*, 6(36), eabb9116.

22. **Kelly A.M.** and Wilson L.C. (2019) Aggression: Perspectives from social and systems neuroscience. *Hormones and Behavior*, 123, Article 104523.

21. Hiura L.C., **Kelly A.M.**, Ophir A.G. (2018) Age-specific and context-specific responses of the

medial extended amygdala in the developing prairie vole. *Developmental Neurobiology*,

78(12), 1231-1245.

***Started as Assistant Professor at Emory August 2018 (above)***

20. Finton C.J., **Kelly A.M.**, Ophir A.G. (2018) Cannulation and microinjection stereotaxic surgeries

in the prairie vole (*Microtus ochrogaster*). *Kopf Carrier* #94.

19. **Kelly A.M.**, Hiura L.C., Ophir A.G. (2018) Rapid nonapeptide synthesis during a critical period

of development in the prairie vole: Plasticity of the paraventricular nucleus of the hypothalamus. *Brain Structure and Function*, 223(6), 2547-2560.

18. **Kelly A.M.,** Saunders A.G.Φ,Ophir A.G. (2018) Mechanistic substrates of a life history

transition in male prairie voles: Developmental plasticity in affiliation and aggression

corresponds to nonapeptide neuronal function. *Hormones and Behavior*, 99:14-24.

17. Stevenson T.J., Alward B.A., Ebling F.J.P., Fernald R.D., **Kelly A.M.**, Ophir A.G. (2017) The value of comparative animal research: the application of Krogh’s principle facilitates scientific discoveries. *Policy Insights from the Behavioral and Brain Sciences*, Article 745097.

16. **Kelly A.M.**, Hiura L.C., Saunders A., Ophir A.G. (2017) Oxytocin neurons exhibit extensive

functional plasticity due to offspring age in mothers and fathers. *Integrative and Comparative Biology*. icx036, https://doi.org/10.1093/icb/icx036.

15. **Kelly A.M**. and Vitousek M.N. (2017) Dynamic modulation of sociality and aggression: An examination of plasticity within endocrine and neuroendocrine systems. *Philosophical Transactions of the Royal Society London B*, 372:1727: 20160243.

14. **Kelly A.M.** and Ophir A.G. (2015) Compared to what: What can we say about nonapeptide function and social behavior without a frame of reference? *Current Opinion in Behavioral Sciences*, 6, 97-103.

13. **Kelly A.M.** and Goodson J.L. (2015) Interactions of multiple dopamine cell groups reflect personality, sex, and social context in highly social finches. *Behavioural Brain Research*, 280, 101-112.

12. **Kelly A.M.** and Goodson J.L. (2014) Social functions of individual vasopressin-oxytocin cell groups in vertebrates: What do we really know? *Frontiers in Neuroendocrinology*, 35, 512-529.

11. **Kelly A.M.** and Goodson J.L. (2014) Hypothalamic oxytocin and vasopressin neurons exert sex-specific effects on pair bonding, gregariousness and aggression in finches. *Proceedings of the National Academy of Sciences of the United States of America*, 111, 6069-6074.

10. **Kelly A.M.** and Goodson J.L. (2013) Personality is tightly coupled to vasopressin-oxytocin neuron activity in a gregarious finch. *Frontiers in* *Behavioural Neuroscience*, 8,55.

9. **Kelly A.M.** and Goodson J.L. (2013) Behavioral relevance of species-specific vasotocin

anatomy in gregarious finches. *Frontiers in Neuroscience,* 2, 242.

8. **Kelly A.M.** and Goodson J.L. (2013) Functional significance of a phylogenetically widespread sexual dimorphism in vasotocin/vasopressin production. *Hormones and Behavior,* 64, 840-846.

7. Goodson J.L., **Kelly A.M.**, Kingsbury M.A., Thompson R.R. (2012) An aggression-specific cell type in the anterior hypothalamus of finches. *Proceedings of the National Academy of Sciences of the United States of America* 109, 13847-52.

6.Goodson J.L., **Kelly A.M.**, Kingsbury M.A. (2012) Evolving nonapeptide mechanisms of gregariousness and social diversity in birds. *Hormones and Behavior* 61, 239-50.

5. **Kelly A.M.**, Kingsbury M.A., Hoffbuhr K., Schrock S.E., Waxman B., Kabelik D., Thompson R.R., Goodson J.L. (2011) Vasotocin neurons and septal V1a-like receptors potently modulate songbird flocking and responses to novelty. *Hormones and Behavior* 60, 12-21.

4.Kingsbury M.A., **Kelly A.M.**, Schrock S.E., Goodson J.L. (2011) Mammal-like organization of the avian midbrain central gray and a reappraisal of the intercollicular nucleus. *PLoS One* 6 e20720.

3. Kabelik D., **Kelly A.M.**, Goodson J.L. (2010) Dopaminergic regulation of mate competition aggression and aromataste-Fos colocalization in vasotocin neurons. *Neuropharmacology* 58, 117-25.

2.Goodson J.L., Kabelik D., **Kelly A.M.**, Rinaldi J., Klatt J.D. (2009) Midbrain dopamine neurons reflect affiliation phenotypes in finches and are tightly coupled to courtship. *Proceedings of the National Academy of Sciences of* *the United States of America* 106, 8737-42.

1.Goodson J.L., Rinaldi J., **Kelly A.M.** (2009) Vasotocin neurons in the bed nucleus of the stria terminalis preferentially process social information and exhibit properties that dichotomize courting and non-courting phenotypes. *Hormones and Behavior* 55, 197-202.

**INVITED TALKS (reversed chronological order)**

(† indicates an international talk or meeting)

***Promoted to Associate Professor with Tenure at Emory September 2024 (above)***

26. **Kelly, A.M.** Professional Development Keynote Speaker. Annual Meeting for the Society for Behavioral Neuroendocrinology. Columbus, Ohio. June 2024.

25. **Kelly, A.M.** Living in large groups: Neural circuits facilitating group cohesion. Pennsylvania State University, Neuroscience Symposium Series. State College, PA, USA. February 2024.

24. **Kelly, A.M.**† Neural mechanisms underlying grouping behavior in spiny mice. International Remote Seminar on Frontiers in Social Evolution. October 2023.

23. **Kelly, A.M.**† Neural correlates of developmental plasticity in affiliation and aggression. 13th International Mammalogical Congress: A Joint Meeting of the International Federation of Mammalogists and the American Society of Mammalogists. Anchorage, AK, USA. July 2023.

22. **Kelly, A.M.**† Rapid steroidal influences on context-specific behavior. Annual Meeting for the Society for Behavioral Neuroendocrinology. Tours, France. June 2023.

21. **Kelly, A.M.** Neuroscience of complex societies. University of California at Davis, Department of Psychology Colloquia. Davis, CA, USA. November 2022.

20. **Kelly, A.M.** Neural mechanisms of grouping behaviors. University of Houston, Neuroscience Summer Seminar Series. Houston, TX, USA. August 2022. (virtual talk)

19. **Kelly, A.M.** The African spiny mouse as a model for sociality. Klingenstein-Simons Conference. Annual Meeting. NYC, NY, USA. May 2022.

18. **Kelly, A.M.** Neural mechanisms of grouping behaviors. Georgia State University, Neuroscience Seminar Series. Atlanta, GA, USA. April 2022.

17. **Kelly, A.M.** Neural mechanisms of gregariousness. City University of New York (CUNY) Graduate Center, CUNY Neuroscience Collaborative Seminar Series. NY, USA. October 2021. (virtual talk)

16. **Kelly, A.M.** Evolutionarily conserved mechanisms of sociality. Cornell Neurobiology and Behavior Colloquia. Ithaca, NY, USA. October 2020. (virtual talk)

15. **Kelly, A.M.** Understanding our roots: how basic science contributes to human medicine. Comparative Medicine Seminar, Emory University School of Medicine. Atlanta, GA, USA. October 2020. (virtual talk)

14. **Kelly, A.M.** Perspectives on sociality: Understanding behavior through evolutionary and neural lenses. Emory University’s Frontiers in Neuroscience Seminar. Atlanta, GA, USA. August 2020.

13. **Kelly, A.M.** Processing Social Context: Insights from the neural social behavior network. Kennesaw State University’s Ecology, Evolution, and Behavior Colloquia. Kennesaw, GA, USA. February 2020.

12. **Kelly, A.M.** Non-traditional rodent models for the study of social behavior. Division of Animal Resources, Continuing Education Seminar Series, Emory University. Atlanta, GA, USA. February 2020.

11. **Kelly, A.M.** Evolutionarily conserved mechanisms of sociality. Georgia Tech Neuroscience Colloquia. Atlanta, GA, USA. October 2019.

10. **Kelly, A.M.** Revisiting the social behavior neural network in rodents. Prairie Vole Meeting.

Austin, TX, USA. August 2019.

9.  **Kelly, A.M.**†Stable but subtle responses in brain and behavior to social context: Insights from

the neural social behavior network**.** Behaviour Conference: Joint meeting of the International Ethological Conference and the Animal Behavior Society. Chicago, IL, USA. July 2019.

8.  **Kelly, A.M.** Plasticity in the mechanisms of social behavior on rapid, developmental, and

evolutionary timescales. Annual ‘What’s New in Atlanta Neuroscience’ meeting of the Atlanta

Chapter of the Society for Neuroscience. Atlanta, GA, USA. April 2019.

7. **Kelly, A.M.** Evolutionarily conserved mechanisms of sociality. Mechanisms of Learning Conference, Emory University. Atlanta, GA, USA. March 2019.

6. **Kelly, A.M.** Ethologically- and ecologically- relevant organisms for the study of social behavior. Division of Animal Resources Continuing Education Seminar Series, Emory University. Atlanta, GA, USA. March 2019.

5. **Kelly, A.M.**†Neural mechanisms of sociality. Max Planck Institute of Ornithology, Collective Behavior Group Seminar Series. Konstanz, Germany. November 2018.

***Started as Assistant Professor at Emory August 2018 (above)***

4. **Kelly, A.M.** The influence of family dynamics on developmental trajectories and modulation of social behavior in prairie voles. Annual meeting of the Society for Integrative and Comparative Biology. New Orleans, LA, USA. January 2017.

3. **Kelly, A.M.**†Species-specific vasotocin modulation of affiliative behavior in gregarious finches. Behaviour Conference: joint meeting of the International Ethological Conference, the Australasian Society for the Study of Animal Behaviour, and the Australasian Evolution Society. Cairns, Queensland, Australia. August 2015.

2. **Kelly, A.M.** Nonapeptide mechanisms of avian social behavior. Annual meeting of the Society for Behavioral Neuroendocrinology. Asilomar, CA, USA. June 2015.

1. **Kelly, A.M.** Keynote: Living large and burning bright: A brief glance at the contributions of James L. Goodson to social neuroendocrinology and his community. Annual Indiana University Animal Behavior Conference. Bloomington, IN, USA. April 2015.

**CONFERENCE PRESENTATIONS (reversed chronological order)**

(Φ indicates undergraduate student)

***Promoted to Associate Professor with Tenure at Emory September 2024 (above)***

39. **Kelly A.M.** and Fricker B.A. (2024) Cingulate to septal circuitry facilitates group size preference

in a communal mammal. Annual meeting of the Society for Social Neuroscience (poster).

38. Fricker B.A. and **Kelly A.M.** (2023) Biased brain and behavioral responses in the communally

breeding spiny mouse (*Acomys cahirinus*). Annual meeting of the Society for Neuroscience

(talk).

37. Ho J., Curley J.P., **Kelly A.M.** (2023) Neural correlates of behavior during novel, large group

interactions in the highly social spiny mouse (*Acomys cahirinus*). Annual meeting of the Society

for Neuroscience (poster).

36. Wallace K.J., Li M. Φ, **Kelly A.M.** (2023) Early life social complexity shapes adult social processing in the communal spiny mouse *Acomys cahirinus*. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

35. Fricker B.A. and **Kelly A.M.** (2022) Neural circuitry of gregariousness in the spiny mouse. Keystone Symposia: Neurocircuitry of Social Behavior, South Korea (poster).

34. Fricker B.A. and **Kelly A.M.** (2022) Neural circuitry of gregariousness in the spiny mouse. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

33. Powell J.M. Garvin M. Φ, Lee N.Φ, **Kelly A.M.** (2022) Social behavioral changes associated with advanced aging in prairie voles (*Microtus ochrogaster*). Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

32. Wallace K.J., Li M. Φ, Dupeyron S. Φ, **Kelly A.M.** (2022) The influence of early life social complexity on adult behavior in the spiny mouse *Acomys cahirinus*. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

31. Li M. Φ, Dupeyron S. Φ, Wallace K.J., **Kelly A.M.** (2022) Influences of social enrichment on parental care and juvenile development in the spiny mouse *Acomys cahirinus*. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

30. **Kelly A.M.** and Thompson R.R. (2022) Nonapeptide-neurosteroid interactions as a means of rapidly influencing behavior. Workshop: Oxytocin and vasopressin – From brain modulation to epigenetic regulation and clinical applications (poster).

29. Powell J.M., Young L.J., and **Kelly A.M.** (2021) Distribution of nonapeptide receptors in the forebrain and midbrain of the spiny mouse (*Acomys cahirinus*). Annual meeting (virtual) of the Society for Behavioral Neuroendocrinology (poster).

28. Fricker B.A. and **Kelly A.M.** (2021) Neural mechanisms of gregariousness: the role of the lateral septum. Annual meeting (virtual) of the Society for Behavioral Neuroendocrinology (poster).

27. Gonzalez-Abreu J.G., Rosenberg A.E. Φ, Fricker B.A., Wallace K.J., and **Kelly A.M.** (2021) Species-typical group size differentially influences social and reward neural circuitry. Annual meeting (virtual) of the Society for Behavioral Neuroendocrinology (poster).

26. Powell J.M. and **Kelly A.M**. (2021) The influence of chronic stressors on vasopressin-mediated physiology and social behaviors in the prairie vole. Annual meeting (virtual) of the Society for Social Neuroscience (poster talk).

25. Fricker B.A. and **Kelly A.M.** (2020) Characterization of social behavior in the African spiny mouse (*Acomys cahirinus*). Annual meeting (virtual) of the Society for Animal Behavior (lightning talk).

24. **Kelly A.M.** (2019) The African spiny mouse as a model for sociality. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

***Started as Assistant Professor at Emory August 2018 (above)***

23. Ophir A.G. and **Kelly A.M.** (2018) The impact of the early life family environment on behavior, nonapeptides, and the epigenome of offspring. Joint meeting of the International Congress of Neuroendocrinology and the Society for Behavioral Neuroendocrinology (peer-reviewed and accepted talk).

22. Horowitz, R.G. Φ and **Kelly A.M.** (2018) Neural correlates of aggression in prairie voles. Cornell Undergraduate Psychology Conference (poster).

21. **Kelly A.M.** and Ophir A.G. (2017) The impact of the early life family environment on behavior, nonapeptides, and the epigenome of offspring. Annual meeting of the Society for Social Neuroscience (poster).

20. **Kelly A.M.**, Hiura L.C., Ophir A.G. (2017) Nonapeptide neural plasticity throughout development: Early anatomy and function in the prairie vole. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

19. Hiura L.C., **Kelly A.M.**, Ophir A.G. (2017) The ontogeny of dopaminergic neurons and their activity across social contexts. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

18. **Kelly A.M.**, Hiura L.C., Saunders A. Φ, Ophir A.G. (2016) Neuropeptide responses to offspring separation: A comparison of the maternal and paternal brain. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

17. **Kelly A.M.** and Goodson J.L. (2014) Sexually differentiated functions of amygdalar and hypothalamic oxytocin and vasopressin neurons. 8th International Conference on Hormones, Brain and Behavior (talk).

16. **Kelly A.M.** (2013) Social functions of nonapeptide cell groups. Meeting for Common Themes in Reproductive Diversity (IU training grant) (talk).

15. **Kelly A.M.** (2013) Social functions of a sexually dimorphic cell group. Annual Indiana University Animal Behavior Conference (talk).

14. **Kelly A.M.** and Goodson J.L. (2013) Functional significance of a phylogenetically widespread sexual dimorphism. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

13. **Kelly A.M.** (2012) Nonapeptide modulation of songbird flocking and responses to novelty: sex differences and similarities. Annual Symposium of the W.M. Keck Center for Biology (talk).

12. **Kelly A.M.** and Goodson J.L. (2012) Hypothalamic and amygdalar vasotocin neurons differentially modulate songbird flocking and responses to novelty. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

11. **Kelly A.M.** (2011) Nonapeptide modulation of songbird flocking and responses to novelty. Joint conference of the Animal Behavior Society and The International Ethological Conference (talk).

10. **Kelly A.M.** (2011) Neural mechanisms of behavioral phenotypes in finches. Indiana University EEB Brown Bag seminar (talk).

9. **Kelly A.M.** and Goodson J.L. (2011) Antisense knockdown of BSTm vasotocin cells produces sex-specific effects on sociality and responses to novelty. Biology of Prosocial Behavior Workshop at Emory University (poster).

8. **Kelly A.M.** and Goodson J.L.(2011) Activity of nonapeptide and dopamine neurons reflects sex, social context, and behavioral phenotype in male and female zebra finches. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

7.Goodson, J.L., **Kelly A.M.**, Thompson R.R., Kingsbury M.A. (2011) Antisense knockdown of VIP in the anterior hypothalamus reduces aggression in a territorial finch. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

6. **Kelly A.M.,** Kingsbury M.A., Hoffbuhr K., Schrock S.E., Waxman B., Kabelik D., Thompson RR, Goodson JL (2010) Sociality and boldness in male zebra finches are decreased by vasotocin antisense oligonucleotide infusions into the bed nucleus of the stria terminalis and V1a antagonist infusions into the septum. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

5. **Kelly A.M.**, Thompson R.R., Schrock S.E., Kabelik D., Kingsbury M.A., Goodson J.L. (2010) Sociality and boldness in male zebra finches are decreased by vasotocin antisense oligodeoxynucleotide infusions into the bed nucleus of the stria terminalis, a major locus for behavioral diversity. Annual Indiana University Animal Behavior Conference (poster).

4. **Kelly, A.M.** and Goodson, J.L. (2009) Primary behavioral phenotypes in male and female zebra finches and their relationship to corticosterone. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

3. Goodson, J.L., Rinaldi, J., Gorobet, O., **Kelly, A.M.**, Kemp, C.L., Ki, D.L. (2008) Duds and studs: functional and anatomical profiles of vasotocin and dopamine systems differentiate courting and non-courting zebra finches. Annual meeting of the Society for Integrative and Comparative Biology (contributed talk).

2.Goodson, J.L., Rinalid, J., **Kelly, A.M.**, Kabelik, D. (2008) Duds and studs: Vasotocin and dopamine systems differentiate courting and non-courting male zebra finches. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

1.Kingsbury, M.A., **Kelly A.M.**, Goodson, J.L. (2008) Mammal-like organization of the avian central gray. Annual meeting of the Society for Behavioral Neuroendocrinology (poster).

**PRESS**

August 2022 “Testosterone may promote ‘cuddling’, not just violence, animal study finds” – Annie Lennon, Medical News Today. <https://www.medicalnewstoday.com/articles/testosterone-may-promote-cuddling-not-just-violence-animal-study-finds>

Regarding article: Kelly et al., *Proc Roy Soc. B* 2022

**AWARDS AND HONORS**

2021 **Frank A. Beach Early Career Award**, Society for Behavioral Neuroendocrinology

2019 **Klingenstein-Simons Fellowship in Neuroscience**

2016 International Women’s Day Award for Community Engagement, Cornell Women’s Resource Center, Cornell University

2014 William C. Young Recent Graduate Award, Society for Behavioral Neuroendocrinology

2014 Provost’s Travel Award for Women in Science, Indiana University (IU)

2014 IU Center for the Integrative Study of Animal Behavior (CISAB) Kolodziejski Award

2013 CISAB Semester Scholarship, IU

2013 Provost’s Travel Award for Women in Science, IU

2012 Louise Constable Hoover Summer Fellowship, IU

2012 Best Oral Presentation Award at W.M. Keck Center for Behavioral Biology 13th

Annual Symposium, North Carolina State University (NCSU)

2012 CISAB Travel Award to present at the W.M. Keck Center for Behavioral Biology

13th Annual Symposium NCSU

2011 Center for Behavioral Neuroscience Travel Award to present at the Workshop on the

Biology of Prosocial Behavior, Emory University

2010 Society for Behavioral Neuroendocrinology Travel Award

2009 CISAB Summer Research Fellowship, IU

**SCIENTISTS TRAINED**

*Postdoctoral Scientists Supervised:*

*Emory University:*

2021 – 2023 Kelly Wallace Emory University (NSF PRFB awardee)

*Graduate Students Supervised:*

*Emory University:*

2019 – 2024 Brandon Fricker Emory University (DoD NDSEG awardee)

2019 – 2022 Jeanne Powell Emory University (master’s degree)

2022 – 2024 Deborah Ho Emory University

2023 – Christian Esquilin-Rodriguez Emory University

2024 – Anna Bautista Emory University

2024 Ruben de Klerk University of Amsterdam (master’s degree

program internship)

*Undergraduate Students Supervised:*

*Cornell University:*

2014 – 2015 Jie Ong Queens University (M.A. 2018)

2014 – 2016 Chang Kim Cornell Psychology Major (2015)

2014 – 2017 Rachel Margariti Enrolled NYU (D.M.D.)

2014 – 2017 Alex Saunders Cornell Psychology - Honors (2016)

2014 – 2017 Marissa Rice Cornell Biology Major (2017)

2015 – 2016 Jeremy Pustilnik Cornell Biology Major (2018)

2016 – 2018 Kelly Pellegrino Cornell Biology Major (2018))

2016 – 2017 Calvin Sowah Enrolled (Biological Sciences)

2017 Ruben de Klerk Amsterdam University Neuroscience (2018)

2017 – 2018 Rebecca Horowitz Enrolled (Biological Sciences)

*Emory University:*

2019 Preston Sheng Emory NBB Major (2020)

2019 Joy Knowles Emory Psychology Major (2022)

2019 Alicia Dudas Emory Psychology Major (2022)

2019 – 2020 Isabella Lunin Emory Statistics Major (2022)

2019 – 2021 Zachary Hoffer Emory Psychology Major (2021)

2019 – 2021 Madison Garvin Kennesaw State Biology Major (2021)

2020 Grace Shen Emory NBB Major (2021)

2020 – 2021 Manushri Kanoria Emory Economics Major (2022)

2020 – 2021 Ashley Rosenberg Emory NBB Major, Honors (2021)

2020 – 2021 Harshini Murthy Emory Psychology Major, Honors (2021)

2020 – 2021 Rebecca Kalik Emory NBB Major (2021)

2020 – 2022 Nicholas Lee Emory NBB Major (2021)

2021 – 2022 Zia Huballah Emory NBB Major (2021)

2021 – 2022 Shiyin Liu Emory Psychology Major, Honors (2021)

2021 – 2022 Emma Chatson Emory Psychology Major, Honors (2021)

2021 – 2023 Solanch Dupeyon Emory NBB Major, Honors (2023)

2022 – 2023 Mark Li Emory Psychology Major (2023)

2022 – 2023 Mikala Dowling Enrolled (NBB)

2022 – 2024 Jinrun Jiang Emory NBB Major, Honors (2024)

2022 – 2024 Venezia Roshko Emory NBB Major (2024)

2024 – 2024 Nicklas Gose Emory NBB Major (2024)

2024 – Corvin Lee Enrolled (NBB; Psychology)

2024 – Etana King Enrolled (NBB)

**COURSES TAUGHT**

*Undergraduate Courses:*

Spring 2019 Psychology 110: Psychobiology and Cognition (developed by AK)

Spring 2020

Spring 2021

Summer 2021

Fall 2021

Spring 2023

Fall 2019 Psychology 385: Humans of Tomorrow: Integrating Technology with

Fall 2023 Humanity (developed by AK)

Fall 2024

*Graduate Courses:*

Fall 2019 Psychology 770: Techniques in Mechanisms of Behavior (developed by AK)

Spring 2021 Psychology 543: Cognitive and Social Development (co-taught with

Dr. Stella Lourenco; developed by SL and AK)

Spring 2021 Psychology 777R-1: Graduate Research Seminar A (organized/run by AK)

Fall 2021

Spring 2022

Spring 2024 Psychology 552: Animal Behavior and Evolution (co-taught with Dr. Ben

Wilson; developed by BW and AK)

*Course Grants:*

Fall 2019 Received $500 grant from Emory’s Quality Enhancement Program (QEP) for Psyc 385 to take students on a field trip to Georgia Tech’s Robotarium

*Guest Lectures*

September 2019 The ‘behavior’ of the brain during critical periods of development. NBB 401W – Perspectives in Neuroscience and Behavior, Emory University.

November 2020 Evolution of social neural circuits. IBS 526 - Neuroanatomy and Systems Neuroscience, GDBBS, Emory University.

November 2020 Developmental trajectories in the brain and behavior of prairie voles. ZOOL 336 – Behavioral Endocrinology, Ohio Wesleyan University.

April 2021 Life in Groups. NSC 314 – Neuroendocrinology, Smith College

March 2022 Hormones and Behavior. PSYC 552 – Animal Behavior and Evolution (graduate), Emory University

October 2023 Testosterone: Not just for sex and aggression. NBB 401W – Perspectives in Neuroscience and Behavior, Emory University.

**DEPARTMENT SERVICE**

*Committees:*

2018 – 2020 Graduate Curriculum Committee Member

2019 – 2020 Developmental Faculty Hire Search Committee Member

2020 – 2021 Colloquium Committee Member

Spring 2021 Graduate Recruitment Committee Member

2021 – 2022 Cluster Hire Search Committee Member

2023 – 2024 Colloquium Committee Member

Spring 2024 Graduate Recruitment Committee Member

2024 – 2025 Behavioral Neuroscience Faculty Hire Search Committee Member

*Events:*

September 2019 Organizer of the 12th Annual Psychology Research Festival

**UNIVERSITY SERVICE**

*College Senate*

2022 – present Member of the Emory College Senate, Social Sciences Division

2023 Member of the Emory College Senate Executive Council

*Committees:*

2018 – 2021 Woodruff Fellowship Selection Committee, Laney Graduate School

2020 – 2021 Biological Anthropology Faculty Search Committee, Dept. of Anthropology

*Undergraduate Honors Committees:*

2018 – 2019 Sujith Swarna NBB, (advisor: Dr. Joseph Manns)

2018 – 2019 Bess Greenberg Philosophy, (advisor: Dr. Jeremy Bell)

2020 – 2021 Harshini Murthy Psychology, (advisors: Dr. Aubrey Kelly &

Dr. Michael Siller)

2020 – 2021 Ashley Rosenberg NBB, (advisor: Dr. Aubrey Kelly)

2020 – 2021 Meghan Hurley NBB, (advisor: Dr. Gillian Hue)

2021 – 2022 Shiyin Liu Psychology, (advisors: Dr. Aubrey Kelly &

Dr. Linde Morgan)

2021 – 2022 Emma Chatson Psychology, (advisors: Dr. Aubrey Kelly &

Dr. Michael Siller)

2021 – 2022 Anna Paczuski Psychology, (advisor: Dr. Greg Berns)

2021 – 2022 Tori Huggins Sociology, (advisor: Dr. Sonal Nalkur)

2021 – 2022 Sophia Jaye Film/Media Studies, (advisor: Dr. Tanine Allison)

2022 – 2023 Solanch Dupeyron NBB, (advisor: Dr. Aubrey Kelly)

2022 – 2023 Atlas Thompson Anthropology, (advisor: Dr. Marcela Benitez)

2022 – 2023 Sara Khan NBB, (advisor: Dr. Larry Young)

2022 – 2023 Julianna Celeste NBB, (advisor: Dr. Larry Young)

2023 – 2024 Jinrun Jiang NBB, (advisor: Dr. Aubrey Kelly)

2023 – 2024 Lin Zhou NBB, (advisor: Dr. Robert Liu)

*Graduate Student Faculty Advisory Committees (not including trainees of Dr. Kelly):*

2018 – 2021 Mackenzie Prichard Psychology (BSN), Maney Lab

2018 – 2020 Natalie Pilgeram Psychology (BSN), Maney Lab

2019 – 2021 Kathleen Martin Psychology (Clinical), Palmer Lab

2020 – 2022 Ana Maria Hoffmann Psychology (Cognition), Nygaard Lab

2020 – 2022 Angelle Antoun Psychology (BSN), Wilson Lab

*Graduate Student Dissertation Committees (not including trainees of Dr. Kelly):*

2019 – 2023 Sena Agezo GDBBS (Neuroscience), Liu and Berman Labs

2020 – 2023 Paul Moon Psychology (BSN), Rodman Lab

2021 – 2023 Josh Krasney Psychology (BSN), Manns Lab

2021 – 2023 Mackenzie Prichard Psychology (BSN), Maney Lab

2022 – Present Jarildy Javier GDBBS (Neuroscience), Murugan Lab

2023 – Present Benjamin Dykstra GDBBS (Neuroscience), Murugan and Berman Labs

*Graduate Student Qualifying Exam Committees for GDBBS:*

2019 Sena Agezo GDBBS (Neuroscience), Liu and Berman Labs

2021 Leila Pascual GDBBS (Neuroscience), Sober Lab

2021 Sarah Blumenthal GDBBS (Neuroscience), Young Lab

*Graduate Student/Postdoc Career Development Service:*

October 2018 Professional Development Seminar as a part of NAB seminar

April 2019 Panel member for GSPN’s Funding Panel

August 2019 Microteaching faculty facilitator for TATTO

August 2020 Microteaching faculty facilitator for TATTO

*Non-Committee Service*

November 2019 Panelist for the Faculty Workshop on Writing Foundation Grants hosted by the Foundation Relations Office

January 2022 Co-Leader of Writing Foundation Grants Webinar hosted by the Foundation Relations Office

**PROFESSIONAL DEVELOPMENT**

May 2019 Accepted into Emory’s Quality Enhancement Program (QEP): Nature of Evidence workshop for developing my PSYC 385 course

Fall 2019 Atlanta Society of Mentor’s (ASOM) Mentoring Workshop (6 series)

Summer 2020 Emory College Online Teaching Strategies (ECOTS) Workshop

May 2022 Alan Alda Science Communication Workshop

**PROFESSIONAL MEMBERSHIP, LEADERSHIP, AND REVIEWER SERVICE**

*Associate Editor*

2023- Proceedings of the Royal Society London B: Biological Sciences

*Editorial Board Member*

2017- Hormones and Behavior

2022- Frontiers in Ethology

*Society Memberships*

2008- Society for Behavioral Neuroendocrinology

2014- Society for Social Neuroscience

2014- Society for Neuroscience

2016- Society for Integrative and Comparative Biology

2019- Animal Behavior Society

*Society Committees*

2019- Member of the Program Committee - Society for Behavioral Neuroendocrinology

*Grant Panel Service*

2019 National Science Foundation (NSF) CAREER Program (Ad hoc reviewer)

2021 NSF Postdoctoral Research Fellowships in Biology program

2021 NSF, Neural Systems Cluster of IOS/BIO, Modulation Panel

2022 NSF, Behavioral Systems Cluster of IOS/BIO (Ad hoc reviewer)

*Reviewer service*

Nature Neuroscience

Proceedings of the Royal Society London B: Biological Sciences

Nature’s Scientific Reports

Philosophical Transactions of the Royal Society B: Biological Sciences

Hormones and Behavior

Behavioral Brain Research

Psychoneuroendocrinology

Journal of Comparative Neurology

Physiology and Behavior

Journal of Ethology

Animal Behaviour

PLOS ONE

Life Sciences

The Auk

Current Opinion in Behavioral Science

Integrative and Comparative Biology

American Chemical Society (ACS) Chemical Neuroscience

Behavioral and Brain Sciences

Nature Communications

Journal of Experimental Biology

**OUTREACH** (since starting at Emory)

Big Biology Podcast TBD 2024

Featured on an episode of the Big Biology Podcast, which tells stories of scientists tackling some of the biggest unanswered questions in biology.

Scientific Tools and Techniques Program for 9th Grade 2023

This entails visiting 9th grade classrooms at Dekalb County high schools to provide scientific instruction in subjects not typically encountered until college. I developed a two-day module entitled “Brains and Behavior” that brought live behavioral demonstrations, brain dissections, and microscopy to high schoolers to introduce them to the field of behavioral neuroscience.

Mariposa Scholars Program at Emory University 2019 – 2021

A faculty mentorship program to support DACA and undocumented students. Faculty are paired with an undergraduate mentee to have regular meetings to discuss topics including student life, progress in courses, and summer internship opportunities.

Science Art Wonder 2019 – 2020

An Atlanta-wide initiative that seeks to promote interdisciplinary education through the integration of art and science. I was paired with two artists, and together we created a mixed media representation of how the brain promotes bonding in rodents.

Faculty Engagement with Student Life Program at Emory University Sept. 2019

An initiative to enhance the quality of undergraduate student lives by partnering students with

faculty for support and to actively engage students in the academic community. I participated as

the faculty mentor for “The Role of Nature and Exercise in Mental Health” Stone Mountain Hike

for Turman and Hamilton-Holmes Halls’ first year residents.