

Aubrey M. Kelly, Ph.D.

Assistant 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

2018- *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

GRANTSCurrent Research Support

National Science Foundation IOS-2310626	Kelly, AM (PI)	2023-2027 \$1,265,579
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Title: Dynamic hypothalamic facilitation of group cohesion

Emory University Research Committee – Regular Award Award # TBD	Kelly, AM (PI)	2023-2024 \$29,919
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Title: Oxytocin-mediated newcomer acceptance into an established group

Completed Research Support

Klingenstein-Simons Foundation Fellow in Neuroscience 00083041	Kelly, AM (PI)	2019-2022 \$225,000
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Title: The African spiny mouse as a model for sociality

CTSN/Conte Pilot Project Grant P50MH100023	Young, L.J. (PI); Kelly, AM (awardee)	2019-2020 \$20,000
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Title: The African spiny mouse as a model for sociality

NIH/NICHHD F32 HD081959	Kelly, AM. (PI)	2014-2017 \$154,662
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Title: Impact of early life family structure on behavior, nonapeptide systems, and the epigenome of offspring and mothers.

Advisee Grants

NSF/BIO Postdoctoral Research Fellowship in Biology	Wallace, K.J. (PI); Kelly, AM (sponsor)	2021-2024 \$207,000
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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 National Defense Science and Engineering Graduate Fellowship Award	Fricker, BF. (PI); Kelly, AM (sponsor)	2021-2024 \$123,800
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Title: Neural mechanisms of group dynamics

PUBLICATIONS (reversed chronological order)

(^ϕ indicates undergraduate student)

A. In Preparation or Submitted:

44. **Kelly A.M.** Living in large groups: neural implications of evolving a highly prosocial vs. socially tolerant phenotype. Invited: Frank Beach Award Paper (In Prep for *Hormones and Behavior*)
43. Ho D., Curley J.P., and **Kelly A.M.** Neural correlates of social network position in novel groups (In Prep for *Behavioural Brain Research*)
42. Wallace K.J., Dupeyron S.^ϕ, Li M.^ϕ, and **Kelly A.M.** Early life social complexity shapes adult neural processing in the communal spiny mouse *Acomys cahirinus*. (Submitted to *Psychopharmacology*)
41. Fricker B.A. and **Kelly A.M.** 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 (Under review at *Hormones and Behavior*)

40. **Kelly A.M.** Advancements in the study of neural mechanisms underlying mammalian grouping behavior. Invited for Special Issue: Editors' Showcase – Social Behavior and Communication. (Under revision at *Frontiers in Ethology*)
39. **Kelly A.M.** and Thompson R.R. Testosterone facilitates nonreproductive, context-appropriate pro- and anti-social behavior in male and female Mongolian gerbils (Under revision at *Hormones and Behavior*)
38. Fricker B.A., Ho D., Seifert, A.W., and **Kelly A.M.** Biased brain and behavioral responses in a communally breeding species (Under revision at *Nature's Scientific Reports*)

B. Published:

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 Asst. 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 aromatase-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)

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 Asst. 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)

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 (poster).
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 Asst. 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) Kolodziejcki 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 13 th 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 –	Kelly Wallace	Emory University (NSF PRFB awardee)
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Graduate Students Supervised:

Emory University:

2018 –	Juliana Araujo	Enrolled Max Planck Institute of Ornithology (co-advisor with Iain Couzin)
2019 –	Brandon Fricker	Emory University (DoD NDSEG awardee)
2019 – 2022	Jeanne Powell	Emory University (master's degree)
2022 –	Deborah Ho	Emory University
2023 –	Christian Esquilin-Rodriguez	Emory University

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 – present	Jinrun Jiang	Enrolled, Honors (NBB)
2022 – present	Venezia Roshko	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)

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	

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
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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	Head of the Colloquium Committee Member
Spring 2021	Graduate Admission Committee Member
2021 – 2022	Cluster 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. Allison Tanine)
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 – present	Jinrun Jiang	NBB, (advisor: Dr. Aubrey Kelly)

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 – 2023	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 – Present	Josh Krasney	Psychology (BSN), Manns Lab
2021 – Present	Mackenzie Prichard	Psychology (BSN), Maney Lab
2022 – Present	Jarildy Javier	GDBBS (Neuroscience), Murugan and Young Labs
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)

Fernbank Museum's Adult Science Night expected 2025
 My lab is scheduled to host an event that we have created called "Our Diverse World" as part of the public programming for Fernbank Museum's Adult Science Night. This event involves presentations from undergraduates and graduates at Emory as well as talks from postdocs and faculty to promote scientific literacy about research in behavioral neuroscience. The event was initially planned for 2021, but was delayed due to the Covid-19 pandemic and funding constraints; the event is tentatively expected to occur in 2025.

Scientific Tools and Techniques Program for 9th Grade 2023
 This is a program developed by the Fernbank Science Center's (Atlanta, GA) education department, and 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.

08/23/2023

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.