

Rayna M. Harris

Postdoctoral Scholar, University of California, Davis

Education

- 2002 - 2006 B.S.. Biochemistry, The University of Texas at Austin
2012 - 2017 Ph.D.. Cell and Molecular Biology, The University of Texas at Austin

Experience

- 2021 - 2022 Postdoctoral Scholar. University of California, Davis
2021 - 2022 Parking Supervisor. Alpine Meadows Ski Resort
2020 - 2021 Nursery Supervisor. Rock & Rose Nursery & Landscaping
2018 - 2019 Postdoctoral Scholar. University of California, Davis
2010 - 2012 Laboratory Manager. The University of Texas at Austin
2007 - 2010 Teaching Specialist. The University of Texas at Austin

Honors and Awards

- 2019 AAAS Community Engagement Fellowship.
2019 rstudio::conf 2019 Diversity Scholarship.
2017 Outstanding Graduate Student Academic Employee Award.
2016, 17 University Graduate Continuing Fellowship.
2016 Society for Integrative and Comparative Biology Grant in Aid of Research.
2014, 15, 16 Academic Enrichment Fund Award.
2013, 11, 15 Honorable mention, National Science Foundation Graduate Research Fellowship.

Publications

- 2022 **Prolactin and prolactin receptor expression in the HPG axis and crop during parental care in both sexes of a biparental bird (*Columba livia*)**, VS Farrar, RM Harris, SH Austin, BMN Ultreras, AM Booth, F Angelier, *et al.*, General and comparative endocrinology.
- 2021 **Uncovering the Sex-specific Endocrine Responses to Reproduction and Parental Care**, SH Austin, JS Krause, R Viernes, VS Farrar, AM Booth, RM Harris, *et al.*, Frontiers in endocrinology.

- 2021 **Making Common Fund data more findable: Catalyzing a Data Ecosystem**, *AL Charbonneau, A Brady, CT Brown, SA Sansone, A Ma'ayan, et al.*, bioRxiv.
- 2020 **Ten quick tips for teaching with participatory live coding**, *A Nederbragt, RM Harris, AP Hill, G Wilson*, PLoS Computational Biology.
- 2020 **Stress-mediated convergence of splicing landscapes in male and female Rock Doves**, *AS Lang, SH Austin, RM Harris, RM Calisi, MD MacManes*, BMC genomics.
- 2020 **Transcriptome analysis of hippocampal subfields identifies gene expression profiles associated with long-term active place avoidance memory**, *RM Harris, HY Kao, JM Alarcón, AA Fenton, HA Hofmann*, BioRxiv.
- 2020 **Isolating the role of corticosterone in the hypothalamic-pituitary-gonadal genomic stress response**, *RMC Suzanne Het al.ustin, Rayna Met al.arris, April Met al.ooth, Andrew Set al.ang et al.*, bioRxiv.
- 2019 **FAIRshake: Toolkit to Evaluate the FAIRness of Research Digital Resources**, *DJB Clarke, L Wang, A Jones, ML Wojciechowicz, D Torre, KM Jagodnik, et al.*, Cell systems.
- 2019 **Molecular profiling of single neurons of known identity in two ganglia from the crab *Cancer borealis***, *AJ Northcutt, DR Kick, AG Otopalik, BM Goetz, RM Harris, JM Santin, et al.*, Proceedings of the National Academy of Sciences.
- 2019 **FAIRshake: toolkit to evaluate the findability, accessibility, interoperability, and reusability of research digital resources**, *DJB Clarke, L Wang, A Jones, ML Wojciechowicz, D Torre, KM Jagodnik, et al.*, BioRxiv.
- 2019 **Hippocampal transcriptomic responses to enzyme-mediated cellular dissociation**, *RM Harris, HY Kao, JM Alarcon, HA Hofmann, A Fenton*, Hippocampus.
- 2019 **Molecular Profiling to Infer Neuronal Cell Identity: Lessons from small ganglia of the Crab *Cancer borealis***, *AJ Northcutt, DR Kick, AG Otopalik, BM Goetz, RM Harris, JM Santin, et al.*, bioRxiv.
- 2018 **Ten simple rules for collaborative lesson development**, *GA Devenyi, R Emonet, RM Harris, KL Hertweck, D Irving, I Milligan, et al.*, PLOS Computational Biology.

- 2018 **Gene expression signatures of mating system evolution**, *SCP Renn, HE Machado, N Duftner, AK Sessa, RM Harris, HA Hofmann*, *Genome*.
- 2017 **The melanocortin system regulates body pigmentation and social behaviour in a colour polymorphic cichlid fish**, *PD Dijkstra, SM Maguire, RM Harris, AA Rodriguez, RS DeAngelis, et al.*, *Proceedings of the Royal Society B: Biological Sciences*.
- 2017 **Single-Neuron Gene Expression Analysis Using the Maxwell 16 LEV System in the Neural Systems and Behavior Course**, *RM Harris, AG Otopalik, CJ Smith, D Bucher, J Golowasch, HA Hofmann*, *bioRxiv*.
- 2016 **Inhibition of Aromatase Induces Partial Sex Change in a Cichlid Fish: Distinct Functions for Sex Steroids in Brains and Gonads**, *C Göppert, RM Harris, A Theis, A Boila, S Hohl, A Rüegg, HA Hofmann, et al.*, *Sexual Development*.
- 2016 **Brain Evolution, Development, and Plasticity**, *RM Harris, LA O'Connell, HA Hofmann*, *The Wiley Handbook of Evolutionary Neuroscience*.
- 2015 **Social odors conveying dominance and reproductive information induce rapid physiological and neuromolecular changes in a cichlid fish**, *JM Simões, EN Barata, RM Harris, LA O'Connell, HA Hofmann, et al.*, *BMC genomics*.
- 2015 **Integrating resource defence theory with a neural nonapeptide pathway to explain territory-based mating systems**, *RG Oldfield, RM Harris, HA Hofmann*, *Frontiers in Zoology*.
- 2015 **Seeing is believing: Dynamic evolution of gene families**, *RM Harris, HA Hofmann*, *Proceedings of the National Academy of Sciences*.
- 2015 **Copy number variation in the melanocortin 4 receptor gene and alternative reproductive tactics the swordtail *Xiphophorus multilineatus***, *CC Smith, RM Harris, KP Lampert, M Schartl, HA Hofmann, MJ Ryan*, *Environmental Biology of Fishes*.
- 2014 **The genomic substrate for adaptive radiation in African cichlid fish**, *D Brawand, CE Wagner, YI Li, M Malinsky, I Keller, S Fan, O Simakov, et al.*, *Nature*.
- 2014 **Predator exposure alters stress physiology in guppies across timescales**, *EK Fischer, RM Harris, HA Hofmann, KL Hoke*, *Hormones and Behavior*.

- 2014 **Neurogenomics of Behavioral Plasticity**, *RM Harris, HA Hofmann*, Advances in Experimental Medicine and Biology.
- 2014 **Complex Structural and Regulatory Evolution of the Pro-Opiomelanocortin Gene Family**, *RM Harris, PD Dijkstra, HA Hofmann*, General and Comparative Endocrinology.
- 2014 **Neural Gene Expression Profiles and Androgen Levels Underlie Alternative Reproductive Tactics in the Ocellated Wrasse, *Symphodus ocellatus***, *KA Stiver, RM Harris, JP Townsend, HA Hofmann, SH Alonzo*, Ethology.
- 2013 **Arginine Vasotocin and Androgen Pathways are Associated with Mating System Variation in North American Cichlid Fishes**, *RG Oldfield, RM Harris, DA Hendrickson, HA Hofmann*, Hormones and Behavior.
- 2013 **Sex Steroid Hormones Modulate Responses to Social Challenge and Opportunity in Males of the Monogamous Convict Cichlid, *Amatitlana nigrofasciata***, *AK Sessa, RM Harris, HA Hofmann*, General and Comparative Endocrinology.