Dr. Rayna M. Harris

Scientist, Educator, Community Engagement Manager

2012 - 2017	Ph.D. Cell and Molecular Biology. The University of Texas at Austin
2002 - 2006	B.S. Biochemistry. The University of Texas at Austin
	Experience
2022	•
2023	Adjunct Faculty. Lake Tahoe Community College
2021 - 2023	Postdoctoral Scholar. University of California, Davis
2020 - 2022	Parking Supervisor. Alpine Meadows Ski Resort
2020 - 2021	Nursery Supervisor. Rock & Rose Nursery & Landscaping
2018 - 2020	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.
2014, 15, 16	Academic Enrichment Fund Award.
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	Teaching Experience
Spring 2023	Organic Chemistry III Lab (CHM 223L). Lake Tahoe Community College
Spring 2023	Cell and Molecular Biology (BIO 110). Lake Tahoe Community College
Winter 2023	Principles of Biology III (BIO 103). Lake Tahoe Community College
2022	Introduction to R. University of California, Davis
2022	Introduction to Cloud Computing. University of California, Davis
2022	Introduction to UNIX for Cloud Computing. University of California, Davis
2016 - 2019	Instructor Training. The Carpentries
2017	Biostatistics (SDS 328M). The University of Texas at Austin
2013	Problems in Modern Biology (BIO 301E). The University of Texas at Austin
2007 - 2010	Organic Chemistory Laboratory (CH 210C). The University of Texas at Austin
2008 - 2009	Introduction to Spanish. Futura Language Professionals
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Education

Selected Publications

$Available \ at \ https://scholar.google.com/citations?user= bVy9pMAAAAJ&hl=en$

- 2022 A Parigi, MC Lim, S Canchi, J Sanchez, J Walter, RM Harris, et al., A virtual training module for introducing the use of Amazon Web Services. Journal of Open Source Education 5 (54), 167
- 2020 A Nederbragt, RM Harris, AP Hill, G Wilson, Ten quick tips for teaching with participatory live coding. PLoS Computational Biology 16 (9), e1008090
- 2019 RM Harris, HY Kao, JM Alarcon, HA Hofmann, A Fenton, Hippocampal transcriptomic responses to enzyme-mediated cellular dissociation. Hippocampus 153585
- 2018 GA Devenyi, R Emonet, RM Harris, KL Hertweck, D Irving, I Milligan, et al., Ten simple rules for collaborative lesson development. PLOS Computational Biology 14 (3), e1005963
- 2017 PD Dijkstra, SM Maguire, RM Harris, AA Rodriguez, RS DeAngelis, et al., The melanocortin system regulates body pigmentation and social behaviour in a colour polymorphic cichlid fish. Proceedings of the Royal Society B: Biological Sciences 284 (1851), 20162838
- 2016 RM Harris, LA O'Connell, HA Hofmann, Brain Evolution, Development, and Plasticity. The Wiley Handbook of Evolutionary Neuroscience 422
- 2015 JM Simões, EN Barata, RM Harris, LA O'Connell, HA Hofmann, et al., Social odors conveying dominance and reproductive information induce rapid physiological and neuromolecular changes in a cichlid fish. BMC genomics 16 (1), 1-13
- 2015 RM Harris, HA Hofmann, Seeing is believing: Dynamic evolution of gene families. Proceedings of the National Academy of Sciences 112 (5), 1252-1253
- 2015 RG Oldfield, RM Harris, HA Hofmann, Integrating resource defence theory with a neural nonapeptide pathway to explain territory-based mating systems. Frontiers in Zoology 12 (S1), 1-16
- 2014 D Brawand, CE Wagner, YI Li, M Malinsky, I Keller, S Fan, O Simakov, et al., The genomic substrate for adaptive radiation in African cichlid fish. Nature 513 (7518), 375-381
- 2014 RM Harris, HA Hofmann, Neurogenomics of Behavioral Plasticity. Advances in Experimental Medicine and Biology 781, 149-168
- 2014 RM Harris, PD Dijkstra, HA Hofmann, Complex Structural and Regulatory Evolution of the Pro-Opiomelanocortin Gene Family. General and Comparative Endocrinology 195, 107-115
- 2013 RG Oldfield, RM Harris, DA Hendrickson, HA Hofmann, Arginine Vasotocin and Androgen Pathways are Associated with Mating System Variation in North American Cichlid Fishes. Hormones and Behavior 64, 44-52

Selected Presentations

Available at https://speakerdeck.com/raynamharris.

- 2020 Shiny Musical Genes. University of California, Davis
- 2020 A journey in 'omics research from the bottom of the ocean to the top of a mountain. Sacramento State University
- 2020 Peaks and valleys of prolactin-driven gene expression in parental care. University of California, Davis
- 2019 Community-driven efforts to translate educational materials into many languages. FORCE 11 Annual Meeting
- 2019 RNAseq: A five course meal. University of California, Davis
- 2019 Managing Multilingual Communities. rOpenSci Community Call
- 2018 Usando y Enseñando R para Investigación Reproducible. R Ladies Buenos Aires
- 2018 Zombie Brains: Microbial Mind Control. Nerd Nite Austin

Service

- 2019 Coordinator. I Can Science, a National Geographic Video Series
- 2018 2019 Spanish Translator. The Carpentries
- 2017 2018 Secretary. Software Carpentry Steering Committee
- 2016 2017 Poster Judge. College of Natural Science Undergraduate Research Forum
- 2012 2017 Coordinator. Annual Big Data in Biology Symposium
- 2014 2016 Coordinator. Summer School for Big Data in Biology
 - 2014 Coordinator. Transdisciplinary Graduate Student Luncheon
 - 2009 Spanish Translator. INBio Park, Costa Rica

Peer-reviewer. AAS Open Research; Behavioral Ecology; Genes, Genomes & Genetics; Genes, Brains & Behavior; Journal of Experimental Zoology Part A; Nature; Physiology & Behavior; Proceedings of the Royal Society B; rOpenSci