

Rayna M. Harris, PhD

EDUCATION

The University of Texas at Austin, Austin, Texas
Biochemistry; B.S., 2006

The University of Texas at Austin, Austin, Texas
Cell and Molecular Biology; Ph.D., 2017.

The University of California, Davis, California
Population Health and Reproduction, Postdoctoral Scholar, 2018-2019
Neurobiology, Physiology and Behavior, Postdoctoral Scholar, since 2019

HONORS AND AWARDS

AAAS Community Engagement Fellowship (2019)
rstudio::conf 2019 Diversity Scholarship (2019)
University Graduate Continuing Fellowship, UT Austin (2016 - 17)
Academic Enrichment Fund Award, UT Austin (2014, 15, 16)

SELECTED PUBLICATIONS (8 OF 25)

8. Nederbragt L, **Harris RM**, Hill AP, Wilson GV (2020) Ten Quick Tips For Teaching With Participatory Live Coding. PLOS Comp Biol, accepted.
7. **Harris RM**, Kao H-Y, Alarcon JM, Fenton AA Hofmann HA (2020) Transcriptome analysis of hippocampal subfields identifies gene expression profiles associated with long-term active place avoidance memory. bioRxiv 10.1101/2020.02.05.935759
6. Lang AL, Austin SH, **Harris RM**, Calisi RM, MacManes MD (2020) Stress-mediated convergence of splicing landscapes in male and female Rock Doves. BMC Genomics 21, 251.
5. Clarke DJB *et. al.*. FAIRshake: Toolkit to Evaluate the FAIRness of Research Digital Resources (2019) Cell Systems 10.1016/j.cels.2019.09.011
4. Devenyi GA, Emonet R, **Harris RM**, Hertweck KL, Irving D, Milligan I, Wilson G (2017) Ten simple rules for collaborative lesson development. PLoS Comput Biol 14(3): e1005963.
3. **Harris RM**, Hofmann HA (2015) Seeing is believing: Dynamic evolution of opsin genes. Proc. Natl. Acad. Sci. U.S.A. 112:1252-1253.
2. Brawand et al. (2014) The genomic substrate for adaptive radiation: Genomes of five African cichlid fish. Nature 513: 375-381
1. **Harris RM**, Dijkstra PD, Hofmann HA (2014) Complex Structural and Regulatory Evolution of the Pro-opiomelanocortin Gene Family. Gen. Compar. Endocrinol. 195: 107-115.

COMMUNITY ENGAGEMENT

Coordinator The Carpentries Spanish-speaking Maintainer onboarding program, 2018
Member Open Access Week Advisory Committee, 2018
Secretary Software Carpentry Steering Committee, 2017-2018
Member Software Carpentry Steering Committee, 2016-2017
Poster Judge College of Natural Science Undergraduate Research Forum, 2016, 17
Coordinator Annual Big Data in Biology Symposia, 2012 - 2017
Coordinator Summer School for Big Data in Biology, 2014 - 2017
Member Software Carpentry Mentoring Committee, 2015 - 2017
Blogger PLOS Neuroscience Community, BEACON: An NSF Center for Evolution in Action, Data Carpentry, and Software Carpentry, 2014 - 2019
Coordinator Transdisciplinary Graduate Student Luncheon, October 2014
Coordinator Crockett High School – UT Austin Internship Program, 2012-2014
Coordinator Annual Brain, Behavior, and Evolution Symposia, 2011-2013
Spanish Translator “Welcome to the World of Mushrooms”, INBio Park, Costa Rica, 2009

TEACHING EXPERIENCE

Lead or Co-Lead Instructor
– Instructor Training, Software Carpentry and Data Carpentry (2016 – 2019)
– Integrative Molecular Neuroethology, Neural Systems & Behavior Course (2013 - 2017)
– Introduction to R for Bioinformatics, UT Austin (2016-17)
– The UNIX Shell and Version Control with Git, Software Carpentry (2015)

TEACHING EXPERIENCE (CONTINUED)	Teaching Assistant <ul style="list-style-type: none"> – Children’s Ski and Snowboard School, Northstar California Resort (winter 2019-2020) – Biostatistics (SDS 328M), UT Austin (2017) – Introduction to Core Next-generation Sequencing Tools, UT Austin (2015, 16, 17) – Problems in Modern Biology (BIO 301E), UT Austin (2013) – Organic Chemistry Laboratory (CH 210C), UT Austin (2007-2009) – Advanced Organic Chemistry Laboratory (CH 118K/L), UT Austin (2007)
	Coures taught in Spanish <ul style="list-style-type: none"> – Instructor Training, The Carpentries (2018-2019) – R for Reproducible Research, Data Carpentry (2018) – Git for Version Control, Software Carpentry (2018) – Introduction to Spanish, Futura Language Professionals (2008 - 2009)
	Guest Lecturer <ul style="list-style-type: none"> – Biomedical Research Seminars (NSM9) Sacramento State University (2020) – Meet and Analyze Data (MAD), UC Davis (2020) – Biological Science for Social Justice (NPB 13), UC Davis (2019) – Comparative Animal Physiology (BIO 361T), UT Austin (2016) – Principles of Neuroscience (NEU 482T), UT Austin (2014) – Introduction to Biological Statistics, UT Austin (2014) – Neurobiology of Social Behavior, University of the Republic of Uruguay (2013)
SERVICE	Peer-reviewer AAS Open Research; Behavioral Ecology; Gene; Genes, Brain & Behavior; Genes, Genomes & Genetics; Journal of Experimental Zoology Part A; Nature; Physiology & Behavior; PLOS ONE; Proceedings of the Royal Society B; rOpenSci. Chair Parental Care and Reproduction Symposium, Society for Integrative & Comparative Biology Annual Meeting, January 2020 Co-Chair New Frontiers in the Integrative Study of Animal Behavior Session, Society for Integrative & Comparative Biology Annual Meeting, January 2016 Graduate Representative Cell and Molecular Biology Graduate Program External Review Committee, October 2014
INVITED AND CONTRIBUTED TALKS	CSCCE Community Call: Exploring Diversity, Equity and Inclusion. Apr 22, 2020. SICB 2020 Society for Integrative and Comparative Biology Meeting. Jan 6, 2020 UCLA FORCE11 Scholarly Communication Institute. Aug 5, 2019 UC Davis Next-Gen Sequence Analysis Workshop. Jul 5, 2019 rOpenSci Community Call: Multilingual Communities. Jun, 28 2019 Universidad de Palermo LatinR. September 4, 2018 IBM Buenos Aires R Ladies Buenos Aires Meetup. March 27, 2018. The North Door Nerd Nite Austin Texas. January 10, 2018. UT Austin Ph.D. Thesis Defense. October 18, 2017. UT Tyler Biology Department. November 9, 2016 UT Austin Waggoner Center for Alcohol Addiction Seminar. May 20, 2015 Gulbenkian Institute of Science COPEWELL Workshop. April 11, 2015 UT Austin 10th Annual Integrative Biology Graduate Student Symposium. April 5, 2014 UT Austin Darwin Day. February 10, 2013. University of Bergen Behavioural Fish Neuroscience Network Conference. November 12, 2012
OPEN SOURCE SOFTWARE	Musical Genes: Visualize and sonify gene expression in parenting pigeons https://raynamharris.shinyapps.io/musicalgenes/
BLOG	Science, teaching, community building, and more https://www.raynamharris.com/blog/