Rayna M. Harris

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EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN
Ph.D. Cell & Molecular Biology
Expected Dec. 2017

THE UNIVERSITY OF TEXAS AT AUSTIN
B.S. Biochemistry
Dec. 2006

LINKS

GitHub: **raynamharris**
LinkedIn: **Rayna Harris**
SlideShare: **Rayna Harris**
Google Scholar: **Rayna M Harris**
YouTube: **Rayna Harris**
Twitter: **@raynamharris**
Medium: **@raynamharris**

CERTIFICATIONS

Software Carpentry Instructor Trainer
Software Carpentry Instructor
Data Carpentry Instructor

COURSES TAUGHT

LEAD OR CO-INSTRUCTOR

Software Carpentry Instructor Training
Introduction to UNIX
Introduction to R
Version Control with Git & GitHub
Integrative Molecular Neuroethology
Introduction to Spanish

TEACHING ASSISTANT

Next Generation Sequencing Analysis
Problems in Moder Biology
Organic Chemistry Laboratory

PROGRAMMING

R • Unix • Python • Git • LaTeX

EXPERIENCE

SOFTWARE CARPENTRY Instructor • Instructor Trainer • Mentor • Steering Committee Secretary

January 2015 – present

- Teach computational skills for researchers in two-day workshops
- Develop curricula for R, Python, UNIX, Git, instructor training workshops
- Host on-line discussion sessions for community members around the globe
- Mentor new instructors
- Develop and implement strategic goals for the organization

THE UNIVERSITY OF TEXAS AT AUSTIN Scientist • Educator

Oct 2008 – present | Austin, TX

- Conduct interdisciplinary research to understand how learning works
- Utilize high-performance computing, UNIX, and R for reproducible data analysis and visualization
- Communicate science through scientific journals, social media, and public talks
- Coordinate the Annual Big Data in Biology Summer School and Symposia

MARINE BIOLOGICAL LABORATORIES Research Educator

Summer 2013 – May 2017 | Woods Hole, MA

- Develop new curricula for teaching molecular biology and data science to neurobiologists
- Teach molecular biology and data science
- Supervise independent student research projects
- Manage the Neural Systems & Behavior Facebook and Twitter accounts

RESEARCH

NEUROGENOMICS OF AVOIDANCE LEARNING Ph.D. Thesis

My research focuses on understanding how animals learn to avoid aversive stimuli. I integrated data from animal behavior, neural circuit dynamics, neuromolecular function, and genetic levels of analyses. This scope of integration is the first of its kind in learning and memory neuroscience research. I developed a reproducible analytic workflow combining UNIX, R, and Git. All data are open access under creative commons license.

VARIATION IN ANIMAL BEHAVIOR Research Scientist

Lots of research on animal behavior. 14 publications. Many poster presentations.

HONORS & AWARDS

2017	Berkeley Data Science Institute Fellowship
2016	University Graduate Continuing Fellowship
2016	Outstanding Graduate Student Academic Employee Award
2015	Grant in Aid of Research
2014,15,16	Academic Enrichment Fund Award
2004	International Education Scholarship