

Alexander S. Hall

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Education

Ph.D., Quantitative Biology December 2016
The University of Texas at Arlington GPA: 3.9
Thesis: Origins and Maintenance of Diversity in a Vertebrate Parthenogen
Advisor: Matthew Fujita

B.S., Animal Behavior with Honors May 2011
Southwestern University GPA: 3.42
Honors Thesis: Artificial Lighting and Anuran Calling Behavior

Positions Held

Postdoctoral Researcher at UT Arlington; Advisor: Sen Xu; January – May 2017

Publications

Orcid ID: [\[link\]](#); Google Scholar Profile: [\[link\]](#)

Hall, A. S. 2016. Acute artificial light diminishes central Texas anuran calling behavior. *American Midland Naturalist*, 175:183-193. [\[pdf\]](#)

Pierce, B. A., & A. S. Hall. 2013. Call latency as a measure of calling intensity in anuran auditory surveys. *Herpetological Conservation and Biology*, 8:199-206. [\[pdf\]](#)

Biagas, T. D., A. S. Hall, A. L. Ritzer & B. A. Pierce. 2012. Time of day does not affect outcome of visual encounter surveys of a spring-dwelling salamander, *Eurycea naufragia*. *The Southwestern Naturalist*, 57:162-165. [\[pdf\]](#)

Hall, A. S. 2011. Artificial lighting and anuran calling behavior [Honors Thesis]. Southwestern University, Georgetown, TX.

Selected Manuscripts In Prep

Hall, A. S., A. M. K. Vázquez-Quinto, E. N. Smith, & A. Ramírez-Velázquez. (Submitted). Evidence for range maintenance and homing in a new world Elapid. [\[biorXiv preprint\]](#)

Hall, A. S., D. Rivera, J. A. Maldonado, & M. K. Fujita. (In Prep). Multiple origins of a unisexual hybrid lizard (*Aspidoscelis tessellata*).

A. Ramírez-Velázquez, A. M. K. Vázquez-Quinto, E. N. Smith, & Hall, A. S. (In Prep). Seasonal activity and taxonomic reassignment of Brown's coral snake, *Micrurus b. browni* (Schmidt & Smith, 1943).

Presentations

* Indicates presenting author(s)

Hall, A. S., E. N. Smith. 2017. Learning to swim: evolutionary transition from terrestrial to aquatic life in South American coralsnakes. Tomography for Scientific Advancement; Austin, TX.

- Hall, A. S. 2016. Mitochondrial genomes as tools for systematics. World Congress of Herpetology (Invited Talk); Hangzhou, China.
- Hall, A. S.*, J. E. Cordes, J. M. Walker, D. Rivera, & M. K. Fujita. 2016. Genetic characterization of unisexual *Aspidoscelis tessellata* and *A. dixonii*. World Congress of Herpetology; Hangzhou, China.
- Hall, A. S.*, J. E. Cordes, J. M. Walker, D. Rivera, & M. K. Fujita. 2016. Genetic characterization of unisexual *Aspidoscelis tessellata* and *A. dixonii*. Evolution; Austin, TX.
- Hall, A. S.*, J. E. Cordes, & J. M. Walker. 2015. Genetic characterization of unisexual *Aspidoscelis tessellata* and *A. dixonii*. THS; San Marcos, TX
- Hall, A. S.*, R. H. Adams, & M. K. Fujita. 2015. Inferring paternal parentage of hybrid parthenoforms using whiptail lizards (*Aspidoscelis*). SSAR; Lawrence, KS.
- Hall, A. S.*, R. H. Adams, & M. K. Fujita. 2015. Inferring paternal parentage of hybrid parthenoforms using whiptail lizards (*Aspidoscelis*). Evolution; Guarujá, Brazil.
- Hall, A. S.*, J. A. Maldonado, & M. K. Fujita. 2015. Who are the fathers? Characterizing hybrid origins of parthenogenetic *Aspidoscelis* lizards. ACES, UT Arlington.
- Hall, A. S.*, J. A. Maldonado, & M. K. Fujita. 2015. Who are the fathers? Characterizing hybrid origins of parthenogenetic *Aspidoscelis* lizards. TAS; San Antonio, TX.
- Hall, A. S. 2015. A gentle introduction to high throughput sequencing applications and study design. TAS; San Antonio, TX.
- Hall, A. S. 2014. Origins of diversity in a hybrid parthenogenetic lizard. Genome Biology Group Seminar; UT Arlington.
- Hall, A. S.*, J. A. Maldonado, & M. K. Fujita. 2014. Who are the fathers? Characterizing hybrid origins of parthenogenetic *Aspidoscelis* lizards. Evolution; Raleigh, NC.
- Maldonado, J. A.*, A. S. Hall, & M. K. Fujita. 2014. High-throughput sequencing of whole mitochondrial genomes. Evolution; Raleigh, NC.
- Hall, A. S. 2013. Vertebrate parthenogenesis. Genome Biology Group Seminar; UT Arlington.
- Hall, A. S. 2013. Recombination without sex: Quantifying genome dynamics in an asexual lizard. TAS; Kerrville, TX.
- Hall, A. S., & B. A. Pierce*. 2012. Call latency in anuran breeding call surveys in central Texas. World Congress of Herpetology (Poster); Vancouver, Canada.
- Hall, A. S.*, & B. A. Pierce. 2011. Call latency in anuran breeding call surveys in central Texas. JMIH (Poster); Minneapolis, MN.
- Wilson, E. A.*, A. S. Hall & J. E. Purdy. 2011. Retention of learned association following metamorphosis in African claw-toed frogs. Southwestern Psychological Association; Southwestern Comparative Psychology Association; San Antonio, TX.
- Hall, A. S. 2011. Artificial lighting and nocturnal anuran calling behavior in Michigan and central Texas. TAS; Austin, TX.

- Hall, A. S.*, & B. A. Pierce. 2011. Call latency in anuran breeding call surveys in central Texas. TAS (Poster); Austin, TX.
- Pierce, B. A.*, A. E. Wall, A. S. Hall & K. D. McEntire. 2011. Monthly surface abundance, population size and movement of the Georgetown salamander, *Eurycea naufragia*, in two springs of central Texas. TAS; Austin, TX.
- Hall, A. S. 2010. Nocturnal anurans and artificial lighting. JMIH (Stoye Award Competition); Providence, RI.
- Biagas, T. D., A. S. Hall, L. Kromann, A. L. Ritzer & B. A. Pierce. 2010. The natural history and ecology of the Georgetown salamander (*Eurycea naufragia*). Biology Departmental Seminar; Southwestern University; Georgetown, TX.
- Hall, A. S. 2010. Artificial light and nocturnal anuran calling behavior in northern Michigan vernal pools. Student Works Symposium; Southwestern University; Georgetown, TX.
- Biagas, T. D.*, A. S. Hall*, A. L. Ritzer & B. A. Pierce. 2010. Feel free to hit the snooze button: Time of day does not influence surface counts of the Georgetown salamander (*Eurycea naufragia*). Student Works Symposium (Poster); Southwestern University; Georgetown, TX.
- Hall, A. S. 2010. Artificial light and nocturnal anuran calling behavior in northern Michigan vernal pools. TAS; Stephenville, TX.
- Biagas, T. D.*, A. S. Hall, A. L. Ritzer & B. A. Pierce. 2010. Feel free to hit the snooze button: Time of day does not influence surface counts of the Georgetown salamander (*Eurycea naufragia*). TAS; Stephenville, TX.
- Mingle, M.*, A. Hall, C. Winland, J. Bolton & F. Guarraci. 2010. The paradoxical effects of morphine on sexual motivation in female rats. Southwestern Psychological Association; Southwestern Comparative Psychology Association; Dallas, TX.

Other Experience

Graduate Teaching Assistant; Biostatistics; 2016
Lead Instructor; General Zoology Lab; 2011 - 2016
Seasonal Park Ranger; US Army Corps of Engineers; Lake Georgetown, TX; 2012
Instructor; Non-Majors Biology Lab; 2012
Teaching Assistant; Introduction to Animal Behavior; 2010
Webmaster; Animal Behavior; 2008 - 2010
Animal Care Assistant; CityVet Veterinary Clinic, Flower Mound, TX; 2008 - 2009
Photographer; "The Megaphone," SU Student Newspaper; 2007 - 2010

Honors and Awards

UTA Office of Graduate Studies Dissertation Fellowship; 2016; \$6750
Society for the Study of Evolution - Outreach Grant; 2016; \$1000
Texas Herpetological Society - Grants in Herpetology; 2015; \$500
1st Place - Texas Academy of Science Ph.D. Student Research Competition; 2015; \$1,750
NSF Doctoral Dissertation Improvement Grant; 2015; \$16,993

Phi Sigma Research Grants (5); 2013, 2014 (2), 2015, 2016; \$1,250, \$5,000, \$5,000, \$500, \$3000
Society for the Study of Evolution; Rosemary Grant; 2013; \$1,800
Travel Award of the Graduate Student Senate (4); 2013 - 2016; \$750, \$500, \$750, \$750
Phi Sigma Travel Grants (4); 2014, 2015, 2016; \$630, \$750, \$750, \$750
Departmental Travel Award; UT Arlington Biology; 2013; \$250
Graduate Doctoral Teaching Fellowship; UT Arlington; 2011 - 2016
Enhanced Graduate Teaching Assistantship; UT Arlington; 2011 - 2016
Departmental Honors in Animal Behavior; Southwestern University; 2011
Fabritius Award for Outstanding Service; Southwestern University Animal Behavior; 2011
Outstanding Service Award; Alpha Phi Omega; Alpha Gamma Kappa Chapter; 2011
Best Topic in Terrestrial Ecology and Conservation; Texas Academy of Science; 2010
Dean's List; Southwestern University; Two Semesters
Mood Scholar; Southwestern University; 2007 - 2011
Provost's Scholarship; University of Dallas; 2007 (Declined)
Business Departmental Scholarship; University of Dallas; 2007 (Declined)
Distinguished Cadet; Lewisville High School NJROTC; Awarded Three Times
ROTC Leadership Award; Military Order of the Purple Heart; 2006
Eagle Scout; Boy Scouts of America; 2004

Memberships

Society for the Study of Evolution
Society of Systematic Biologists
American Society of Ichthyology and Herpetology
Society for the Study of Amphibians and Reptiles

Media Coverage

Faronbi, J. (2015, April 8). Student projects receive grants to complete research. *The Shorthorn*, Vol. 96, No. 27, p. 4. <http://www.theshorthorn.com/news/student-projects-receive-grants-to-complete-research/article_378804a4-da63-11e4-8ef9-abb767fa330a.html>
Pederson, G. P. (2015, March 31). Biology doctoral students receive NSF funding for research. *COS News*. <<http://www.uta.edu/cos/news.php?ID=291>>
Davis, E. (2012, January 25). Research that hits home. <<http://southwestern.edu/live/news/6414-research-that-hits-home>>
Osborn, C. (2011, February 7). Access limited to Georgetown preserve. *Austin American-Statesman*, pp. B1, B5.
Davis, E. (2010, February 26). Biology professor receives \$25,000 for salamander research. <<http://www.southwestern.edu/newsroom/story.php?id=2206>>

Volunteer Experience

Poster Judge; UTA Annual Celebration of Excellence by Students (ACES); 2016
Reviewer: *Hydrobiologia*; *Genome*; *Journal of Natural History*
Dog Foster; Greyhound Adoption League of Texas; 2015 –

Undergraduate Poster and Presentation Judge; Texas Academy of Science; 2015
Poster Judge; Fort Worth Regional Science and Engineering Fair; 2014, 2016
Graduate Student Senate; UT Arlington; 2012 - 2016
Panel Member; "Grad School 101"; Texas Academy of Science; 2011
Elected Representative; SU Student Congress; 2009 - 2011
Co-Founder, Publicity Chair; SU Animal Behavior Society; 2008 - 2011
Alpha Phi Omega; National Co-ed Service Fraternity; 2007 - 2011
Student Mentor; Science and Math Achiever Team; Spring/Fall 2009