

## 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

Product Marketing Engineer at Thermo Fisher Scientific; September 2017 – Present

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

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. [\[bioRxiv preprint\]](#)

O'Connell, K. A., K. J. Shaney, A. S. Hall, U. Arifin, N. Kurniawan, I. Sidik, & E. N. Smith. (Submitted). Description of a new species of parachuting frog (Rhacophoridae: *Rhacophorus*) from northern Sumatra using micro-computed tomography.

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  
1<sup>st</sup> 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](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 – 2017  
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