

## **Aaron M. Reedy**

James and Elizabeth Wright Fellow  
Jefferson Scholars Foundation  
University of Virginia  
Department of Biology  
Charlottesville, VA 22902

(434) 882-8005  
aaronreedy@virginia.edu  
aaronmreedy.com

### **Education**

Ph.D. Biology, expected 2018	University of Virginia, Charlottesville, VA
2008 M.A. Teaching, Secondary Education	National-Louis University, Chicago, IL
1999 B.A. Zoology	Southern Illinois University, Carbondale, IL

### **Fellowships, Grants and Awards**

- 2017 Jefferson Scholars Foundation Exploratory Award
- 2016 National Science Foundation Doctoral Dissertation Improvement Grant
- 2016 University of Virginia All University Graduate Teaching Award
- 2016 Raven Society
- 2015 Chicago Herpetological Society Research Grant
- 2013 University of Virginia Graduate School of Arts & Sciences Outreach Grant
- 2013 University of Virginia Society of Fellows, Junior Fellow
- 2013 American Pixel Academy, Pixie Platinum Award for Excellence in Animation
- 2013 First Prize Commissioned Work, Association Internationale Film d'Animation-East
- 2012 Jefferson Scholars Foundation Graduate Fellowship
- 2011 Chicago Ideas Week Idea Award for Innovation in Education
- 2011 National Geographic Society/ Waitt Grant team member: How do population sex ratios affect the strength of natural selection in wild populations?
- 2011 Oppenheimer Foundation Teacher Incentive Grant: Animal Behavior Symposium
- 2010 Illinois Golden Apple Award for Excellence in Teaching
- 2010 National Science Foundation Research Experience for Teachers Grant
- 2008 Fund For Teachers Fellow

### **Professional Experience**

**University of Virginia, August 2012 to present**  
**Jefferson Scholars Foundation, James and Elizabeth Wright Graduate Fellow in Biology**

- Co-founded EvolutionEd.org to promote a model of K-12 science education led by teacher scientists. This National Science Foundation funded initiative conducts teacher

professional development and offers fellowships in experimental design and evolutionary ecology to outstanding middle and high school biology teachers from across the country.

- Conducted large-scale research on the evolutionary ecology of sexual conflict using wild island populations of lizards.
- Co-founded DataClassroom to produce data analysis software designed for students and teachers in science classrooms (grades 6-12)
- Served on Charlottesville High School STEM steering committee.

#### **Chicago Public Schools, January 2006 to June 2012**

##### **Biology & Zoology Teacher, Thomas Kelly High School, Chicago, Illinois**

- Published peer-reviewed science conducted by high school students as part of a high school curriculum.
- Co-coordinated Turtle Research Ecology and Education (TREE), a field based research program for high school students.
- Conducted a 1,000 mile expedition by kayak to research nutrient pollution of the Mississippi River and develop a river ecology unit for biology students.
- Guest lecturer via video conference with university education students at Utah State and University of North Carolina at Greensboro.
- Served on Chicago Foundation for Education's 2009 Grant Selection Committee.
- Leader of the science department's Biology Team from 2006 to 2011.

#### **Advance Illinois Education Advisory Committee 2010-2012**

- Coauthored *Transforming Teacher Work For A Better Educated Tomorrow*
- Advised bipartisan legislators on legislation (Senate Bill 7) to improve teacher evaluation.
- Testified before Illinois House of Representatives on teacher entrance requirements.

#### **United States Peace Corps Volunteer, October 2001 to December 2004**

##### **Teacher, Napil Rural Training Center, Vanuatu**

- Facilitated the implementation of capacity building projects including a library, poultry farm, bread oven, hurricane-resistant schoolhouse and 5,000 gallon rain-water tank.
- Secured \$9,500 USD in grants to improve school facilities and obtain learning materials.
- Taught science, health and English to students ages 12 to 24.

#### **Project Manager, Rural Development and Training Centers' Association, Vanuatu**

- Designed and implemented a national training course for agriculture teachers for the growing and processing of black pepper and vanilla.
- Initiated and managed an international disaster relief fund through Oxfam New Zealand to build new schools after the devastation of Cyclone Ivy.
- Facilitated meetings with tribal chiefs and village elders to create memoranda of understanding between local communities and international aid organizations.
- Developed a program to bring solar power and renewable energy education to four rural training centers previously without access to electricity.
- Secured over \$50,000 USD in grants from Oxfam NZ and US Aid.

#### **Life Line Emergency Medical Service, 2000 to 2001, EMT, Marion, IL**

- Treated serious medical emergencies in field settings.

### Invited Talks

- 2017 National Biology Teachers Association, On using real data in the K-12 classroom
- 2017 University of Richmond, On using anoles as a model for studying evolution
- 2014 Penn State University, Carbon Earth GK-12 and Beyond, Conference Keynote
- 2013 TED, Long Beach, CA, On experiences creating digital science education content.
- 2013 TED-Ed, Palm Springs, CA, Talk title: Overcoming the scientific divide.
- 2012 TED, Long Beach, CA, Talk title: How do we know what we know about evolution?
- 2011 Chicago Herpetological Society
- 2011 Teachers for Tomorrow, Niles, IL Connecting science classrooms with working scientists. Conference Keynote
- 2009 TEDxSMU, Dallas TX, Science teachers as scientists.
- 2009 Fund For Teachers Fundraising Gala, Houston, TX. Keynote address.
- 2008 Chicago Foundation for Education

### Publications

#### Scientific Peer Reviewed

- **Reedy, A.M.**, Pope, B.D. Kiriazis, N., Giordano, C., Sams, C., Warner, D.A, and R.M. Cox. 2017. Female brown anoles (*Anolis sagrei*) display less and attack more quickly than males when challenged with a same-sex territorial intruder. *Behavioral Ecology*. 28: 1323-1328.
- **Reedy, A.M.**, Cox, C.L, Evans, W.J., Chung, A.K., and R.M. Cox. 2016. Both sexes suffer increased parasitism and reduced energy storage as costs of reproduction in the brown anole, *Anolis sagrei*. *Biological Journal of the Linnean Society*. 117: 516-527.
- Refsnider, J. M., **Reedy, A. M.**, Warner, D. A., & Janzen, F. J. 2015. Do trade-offs between predation pressures on females versus nests drive nest-site choice in painted turtles? *Biological Journal of the Linnean Society*. 116: 847-855.
- Cox, C. L., Hanninen, A. F., **Reedy, A. M.**, & Cox, R. M. 2014. Female anoles retain responsiveness to testosterone despite the evolution of androgen-mediated sexual dimorphism. *Functional Ecology*. 29: 758–767.
- **Reedy, A.M.**, A. Edwards, C. Pendlebury, L. Murdaugh, R. Avery, J. Seidenberg, A.S. Aspbury, and C. Gabor. 2014. An acute increase in the stress hormone corticosterone is associated with mating behavior in both male and female red-spotted newts, *Notopthalmus viridecens*. *General and Comparative Endocrinology*. 208: 57-63.
- **Reedy, A.M.**, D. Zaragoza, and D.A. Warner. 2013. Maternally-chosen nest sites positively affect multiple components of fitness in offspring lizards. *Behavioral Ecology*. 24: 39-46.

**In Prep**

- Kustra, M. Kahrl, A.F., **Reedy, A.M.**, Warner, D.A., R. M. Cox. Local population density affects sperm morphology and sperm count in a wild population of brown anole lizards, *Anolis sagrei*. In Prep.

**Popular Publications and Natural History Notes**

- **Reedy, A.M.**, "The Lizard Project: Why Scientists and Teachers Should Work Together for Science Outreach," *Scientific American*. August 31 2012. Web.
- Cates C.D., D.M. Delaney, A.M. Buckelew, A.M. Durso, S.S. French, **A.M. Reedy**, and D.A. Warner. 2014. *Anolis sagrei*. Cannibalism. *Herpetological Review*. 45(3):491
- Cates C.D., D.M. Delaney, A.M. Buckelew, A.M. Durso, S.S. French, **A.M. Reedy**, and D.A. Warner. 2014. *Anolis sagrei*. Egg Predation. *Herpetological Review*. 45(3):491-492.
- Delaney, D.M., A.M. Durso, S.S. French, **A.M. Reedy** and D.A. Warner. 2014. *Anolis sagrei* (Brown anole). Prey Stealing Behavior. *Herpetological Review*. 45 (2): 324-325.
- **Reedy, A.M.**, C.L. Cox, R.M. Cox, and R. Calsbeek. 2013. *Anolis sagrei* (Brown anole). Sexual Cannibalism. *Herpetological Review*. 44 (4): 661-662.
- Durso, A.M., T.S. Mitchell, **A.M. Reedy**, & D.A. Warner. 2013. *Ophisaurus compressus* (Island Glass Lizard) Swimming. *Herpetological Review* 44: 146.
- Delaney, D.M., **A.M. Reedy**, T.S. Mitchell, A.M. Durso, K.P. Durso, A.J. Morrison and D.A. Warner. 2013. *Anolis sagrei* (Brown Anole). Nest-Site Choice. *Herpetological Review* 44: 314.
- Durso, A.M., D.A. Warner, T.S. Mitchell and **A.M. Reedy**. 2011. *Heterodon nasicus* (Western Hog-nosed Snake). Diet. *Herpetological Review* 42 (3): 439-440

**References**

Dr. Robert Cox  
 Email: [rmc3u@virginia.edu](mailto:rmc3u@virginia.edu)  
 Phone: (434) 982-1987

Associate Professor (Dissertation Advisor)  
 Department of Biology  
 University of Virginia  
 Charlottesville, VA 22904

Dr. Daniel Warner  
 Email: [daw0036@auburn.edu](mailto:daw0036@auburn.edu)  
 Phone: (515) 441-6565

Assistant Professor  
 Biological Sciences Department  
 Auburn University  
 Auburn, AL 36849

Dr. Edmund D. Brodie III  
 Email: [edb9j@virginia.edu](mailto:edb9j@virginia.edu)  
 Phone: (434) 243-1068

Professor  
 Department of Biology  
 Charlottesville, VA 22904