

# ROMI L. BURKS

## CURRICULUM VITA

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### EDUCATION

University of Notre Dame (UND)

**Ph.D. Ecology, Evolution & Environmental Biology, 2000**

Dissertation title: *Daphnia* in littoral zones: costs & benefits associated with diel horizontal migration;

Advisor: D. M. Lodge

Loyola University Chicago (LUC)

**B.S. in Biology with honors, magna cum laude, 1995**

**B.A. in English with honors, magna cum laude, 1995**

### POSITIONS HELD

2013 – present Professor, Southwestern University (SU) Department of Biology  
2021 – present Animal Studies Minor, Coordinator  
2017 – 2020 Chairperson, Department of Biology  
2009 – 2013 Associate Professor, SU Department of Biology  
2003 – 2009 Assistant Professor, SU Department of Biology  
2012 – 2018 Co-Chair, SU Environmental Studies Program  
2006 – 2018 Co-Chair, SU Animal Behavior Program  
2009 – 2012 Paideia Professor, Southwestern University  
08/01 – 7/03 Research and Teaching Fellow, Rhodes College (RC)  
12/00 – 7/03 Postdoctoral Fellow, The Ohio State University

### HONORS, LEADERSHIP ROLES & AWARDS

2022 London Program Faculty  
2021 Paideia Connections Faculty  
2019 Ms. Homecoming Faculty Honor, SU  
2017 Judge, Good Food Awards, Chocolate  
2017 SU Senior Faculty Award for Excellence in Scholarship and Creative Works  
2016 Invited judge, World Finals, International Chocolate Awards, London  
2014 Invited judge, International Chocolate Awards, New York City  
2013 Invited Senior Mentor, WEBS Symposium (<http://advance.washington.edu/webs/>)  
2010 Joined Editorial Board of *Freshwater Biology* (invitation only)  
2009 – 2013 Texas Academy of Sciences Past-President (12-13), President (11-12), President-Elect (10-11), Vice President (09-10), Awards Committee Chair  
2009 Texas Academy of Sciences Fellow  
2009 Panelist for IRES (International Research Experiences for Students), NSF  
2007 Panelist for DDIG Review in Ecology, National Science Foundation  
2000 The Kaneb Center Graduate Student Award for Excellence in Teaching  
1998 Fulbright Scholar to Denmark  
1997 UND Graduate Student Union Teaching Assistant of the Year Award  
1995 Presidential Medal Recipient from the College of Arts and Sciences, LUC  
1995 - *Phi Beta Kappa*, member

### RESEARCH INTERESTS

- Impacts of non-native species on community structure
- Molecular ecology of apple snails
- Environmental DNA
- Predator-prey interactions (esp., invertebrate) and structural complexity within littoral zones

## SELECTED PUBLICATIONS – PEER-REVIEWED UNLESS NOTED (\* denotes undergraduate)

An \* indicates an undergraduate co-author at the time at which the research occurred.

- Burks, R. L. 2020. Setting Up Nonparametric Tests. Make Teaching with R in Undergraduate Biology Less Excruciating 2020, QUBES Educational Resources. [doi:10.25334/PFE8-D888](https://doi.org/10.25334/PFE8-D888)
- Glasheen, P. M.\*, S. R. Campos\*, R. L. Burks and K. A. Hayes. 2020. First evidence of introgressive hybridization of apple snails (*Pomacea* spp.) in a native range. *Journal of Molluscan Studies* 86(2): 96-103. Accepted (Click on PDF), [doi:10.1093/mollus/eyz035](https://doi.org/10.1093/mollus/eyz035).
- Emery, N., A. Hunt, R. Burks, M. Duffy, C. Scoffoni, and A. Swei. 2019. Students as ecologists: Strategies for successful mentorship of undergraduate researchers. *Ecology and Evolution*: <https://rdcu.be/btaia>.
- Sterling, E. J., R. L. Burks, J. Linder, T. Langen, D. S. Fernandez, D. Ruby, and N. Bynum. 2018A. Why is biodiversity important? An oral communication exercise. *Lessons in Conservation* 8:10–12. Available from <http://www.amnh.org/our-research/center-for-biodiversity-conservation/resources-and-publications/lessons-in-conservation/lessons-in-conservation-volume-viii>
- Perez, K. P., V. G. Gamboa, C. M. Schneider\* and R. L. Burks. 2017. Resaca supports invasive apple snails (*Pomacea maculata*, Perry, 1810; Caenogastropoda: Ampullariidae) within the Rio Grande Valley, Texas. *CheckList* 13(3): <https://doi.org/10.15560/13.3.2134>
- Glasheen, P. M.\*, C. Clavo, M. Meerhoff, K. A. Hayes and R. L. Burks. 2017. Survival, recovery, and reproduction of apple snails (*Pomacea* spp.) following exposure to drought conditions. *Freshwater Science* 36(2): 316 - 324.
- Burks, R. L., J. Bernatis, J. E. Byers, J. Carter, C. W. Martin, W. G. McDowell and J. van Dyke. 2017. Identity, reproductive potential, distribution, ecology and management of invasive *Pomacea maculata* in the southern United States. Pages 293-334. 2nd edition of *Global Advances in Ecology and Management of Golden Apple Snails*.
- Sterling, E., A. Bravo, A. Porzecanski, R. Burks, J. Linder, T. A. Langen, D. S. Fernandez, D. Ruby and N. Bynum. 2016. Think before (and after) you speak: Practice and self-reflection build student confidence and bolster performance in oral communication skills in ecology and conservation biology classes. *Journal of College Science Teaching* 45(6): 87-99.
- Burks, R. L., A. Miller\* and A. Hill\*. 2016. CABI Compendium project on *Pomacea maculata*. (Not traditional peer-review): <http://www.cabi.org/isc/datasheet/116486>
- Perez, B. J.\*, A. H. Segrest\*, S. R. Campos\*, R. L. Minton and R. L. Burks. 2016. First record of Japanese Mystery Snail *Cipangopaludina*, *CheckList* 12(5): <http://dx.doi.org/10.15560/12.5.1973>.
- Hayes, K.A., R. L. Burks, A. Castro-Vazquez, P. C. Darby, H. Heras, P. R. Martín, J.-W. Qiu, S. C. Thiengo, I. A. Vega, T. Wada, Y. Yusa, S. Burela, M. P. Cadierno, J. A. Cueto, F. A. Dellagnola, M. S. Dreon, M. V. Frassa, M. Giraud-Billoud, M. S. Godoy, S. Ituarte, E. Koch, K. Matsukura, M. Y. Pasquevich, C. Rodriguez, L. Saveanu, M. E. Seuffert, E. E. Strong, J. Sun, N. E. Tamburi, M. J. Tiecher, R. L. Turner, P. L. Valentine-Darby & R. H. Cowie. 2015. Insights from an integrated view of the biology of apple snails (Caenogastropoda: Ampullariidae). *Malacologia* 58(1-2): 245-302.
- Liebl, M.\*, K. Roberts\*, A. Mohammed\*, M. Lowther\*, E. Navaira\*, A. Frankel\*, S. Pukys and R. L. Burks. 2014. Staying SMART: Introduction and assessment of a one-on-one inquiry model to teach the scientific method to elementary school students. *Science Education and Civic Engagement: An International Journal* 6(1): 32-44. <http://d32ogoqmya1dw8.cloudfront.net/files/seceij/winter14/smart.pdf>
- Kyle, C. H.\*, A. Plantz\*, T. Shelton and R. L. Burks. 2013. Count your eggs before they invade: Identifying and quantifying egg clutches of two invasive apple snail species (*Pomacea*). *PLoS One* Open Access. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0077736>
- Burks, R. L. 2012. One McBug Burger Please: Eating insects in ecology class to contextualize climate change discussion. *EcoEd*, <http://ecoed.esa.org/index.php?P=FullRecord&ID=383>.
- Kyle, C. H.\*, A. W. Kropf\* and R. L. Burks. 2011. Prime waterfront real estate: Apple snails choose wild taro for oviposition sites. *Current Zoology* 57(5): 630-641.
- Burks, R. L., S. A. Hensley\* and C. H. Kyle\*. 2011. Quite the appetite: juvenile island apple snails (*Pomacea insularum*) survive consuming only exotic, invasive plants. *Journal of Molluscan Studies* 77(4): 423-428.
- Burks, R. L., C. H. Kyle\* and M. K. Trawick\*. 2010. Pink Eggs and Snails: Field oviposition patterns indicate shallow aquatic systems susceptible to invasion by *Pomacea insularum*. *Hydrobiologia*, Shallow Lakes 2009 Special

Volume 646: 243-251.

- **Burks, R. L.** and M. M. Chumchal. 2009. To Co-author or Not to Co-author: How to write, publish, and negotiate issues of authorship with undergraduate research students. *Sci. Signal.* 2 (94), tr3.
- **Burks, R. L.** 2009. A Kernel of Truth: Microwave popcorn makes it easier to teach basic statistics. *The L&O Bulletin* 18(2): 36-40.
- Kyle, C. H.,\* M. K. Trawick,\* J. P. McDonough\* and **R. L. Burks.** 2009. Population dynamics of an established reproducing population of the invasive apple snail (*Pomacea insularum*) in suburban southeast Houston, Texas. *Texas Journal of Science* 61(4): 1-5.
- Barnes, M.A.\*, R. K. Marfurt\*, J. J. Hand and **R. L. Burks.** 2008. Fecundity of the exotic applesnail, *Pomacea insularum*. *The Journal of the North American Benthological Society* 28(3): 738-745.
- Youens, A. K.\* and **R. L. Burks.** 2008. Comparing applesnails with oranges: the need to standardize measuring techniques when studying *Pomacea*. *Aquatic Ecology* 42(4): 679-684.
- Boland, B.\*, M. Meerhoff, C. Fosalba, N. Mazzeo, M. Barnes\* and **R. L. Burks.** 2008. Juvenile snails, adult appetites: Contrasting resource consumption between two species of applesnails (*Pomacea*). *Journal of Molluscan Studies* 74(1): 47-54.
- **Burks, R. L.** and L. Boles. 2007. Evolution of the Chocolate Bar: A creative approach to teaching phylogenetic relationships within evolutionary biology. *The American Biology Teacher* 69(4): 229-237.
- **Burks, R. L.,** G. Mulderij, E. Gross, I. Jones, L. Jacobsen, E. Van Donk, and E. Jeppesen. 2006. Chapter 3 - Center stage: The Crucial Role of Macrophytes in Regulating Trophic Interactions in Shallow Lake Wetlands. Pages 37-59 in R. Bobbink, B. Beltman, J. T. A. Verhoeven, and D. F. Whigham (eds) *Wetlands: Functioning, Biodiversity Conservation, and Restoration*. Ecological Studies, Volume 191, Springer-Verlag Berlin Heidelberg.
- R. G. Howells, L. E. Burlakova, A. Y. Karatayev, R. K. Marfurt\*, and **R. L. Burks.** 2006. Chapter 5 - Native and introduced Ampullariidae in North America: History, status and ecology. Pages 73-112 in R. C. Joshi (ed) *Global Advances in Ecology and Management of Golden Apple Snails*. Philippine Rice Research Institute (PhilRice), Philippines.
- Lindquister, G., **R. L. Burks,** and C. R. Jaslow. 2005. Developing information fluency in introductory biology students in the context of an investigative laboratory. *Cell Biology Education* 4: 58-96.
- Tuchman, N. C., **R. L. Burks,** C. A. Call, and J. J. Smarrelli. 2004. Flow rate and vertical position influence ingestion rates of colonial zebra mussels (*Dreissena polymorpha*). *Freshwater Biology* 49: 191-198.
- **Burks, R. L.** and D. M. Lodge. 2002. Cued in: advances and opportunities in freshwater chemical ecology. *Journal of Chemical Ecology* 28(10): 1881- 1897.
- **Burks, R. L.,** N. C. Tuchman, C. A. Call, and J. E. Marsden. 2002. Colonial aggregations: the effect of spatial position on zebra mussel responses to interstitial water quality. *Journal of the North American Benthological Society* 21(1): 64-75.
- **Burks, R. L.,** D. M. Lodge, E. Jeppesen and T. L. Lauridsen. 2002. Diel horizontal migration of zooplankton: costs and benefits of inhabiting littoral zones. *Freshwater Biology* 47: 343-366.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. 2001. Pelagic prey and benthic predators: impact of odonate predation on *Daphnia* among complex structure. *Journal of the North American Benthological Society* 20(4): 683-696.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. 2001. Littoral zone structures as *Daphnia* refugia against fish predation. *Limnology and Oceanography* 46(2): 230-237.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. 2000. Macrophyte and fish chemicals suppress *Daphnia* growth and alter life history traits. *Oikos* 88(1): 139-147.
- Lauridsen, T. L., E. Jeppesen, S.F. Mitchell, D. M. Lodge and **R. L. Burks.** 1999. Horizontal distribution of zooplankton in lakes with contrasting fish densities and nutrient levels. *Hydrobiologia* 408/409: 241-250.

## FUNDING

2018, 2015            Sam Taylor Fund, United Methodist, \$1400 & \$1700, molecular ecology  
2012                    National Science Foundation, Research Opportunity Award, \$19,815 (via R. Cowie)  
2011-2015            National Science Foundation, International Research Experience for Students  
IRES-AMPLIFIED (\$72,075 to SU; \$77,877 match to Univ. Hawaii)

2010-2011	Sam Taylor Fund, United Methodist, \$2000, stable isotope analysis
2010	National Science Foundation, IRES Planning Grant (\$18,670)
2007-2008	Sam Taylor Fund, United Methodist, \$2000, lab improvements
2001	The Ohio State University Postdoctoral Fellowship
1999-2000	National Science Foundation Fellowship (Graduate Research Training)
07/1999	American Scandinavian Foundation Research Grant, \$3,000
1998-1999	Fulbright Fellowship for Study in Denmark (DK), \$11,000
1999-2000	National Science Foundation Graduate Research Training Grant; \$2000 + salary

### **PEDAGOGICAL INTERESTS**

- Examining the integration between teaching and research
- Encouraging critical thinking analysis through hands-on activities with graphing and statistics
- Understanding and improving the mentoring process
- Inquiry-based teaching and learning

### **MENTORING EXPERIENCE (i.e. UNDERGRADUATE RESEARCHERS)**

#### **Current teams of undergraduate researchers and associated projects:**

03/2021 – present	<b>Cynthia Basura, Lillian Dolopchiak</b> (2021 SCOPE), San Antonio survey work
08/2021 – present	<b>Kate Henderson, Abby White and Cassidy Reynolds</b> , Technicians

#### **Last 10 Years SU Students (with at least two semesters of research or summer work):**

01/2019 – 05/2021	<b>Kaitlin Galassini '21</b> (2019 SCOPE), microplastics and eDNA
03/2018 – 05/2021	<b>Lauren Muskara '21</b> (2018 SCOPE), field eDNA and primer development
03/2018 – 05/2019	<b>Shellsea Miller '20</b> (2018 SCOPE), field eDNA, Field Technician, UT Breckenridge
03/2018 – 05/2019	<b>Nicole Kelly</b> , (2018 SCOPE), mysterysnails
05/2017 – 05/2019	<b>Hannah Winkler '19</b> , Identity of Chinese and Japanese mysterysnails through 16S
01/2016 - 05/2019	<b>Madison Granier '19</b> (2016 HHMI SCOPE), senior, eDNA and apple snails
08/2016 – 08/2018	<b>Shannon Walsh '18</b> , senior, Identity of Chinese and Japanese mysterysnails via COI, Employed as medical scribe
08/2016 – 05/2017	<b>Hugo Cepeda '18</b> , learned molecular techniques, IDEA Science Teacher
03/2015 – 06/2017	<b>Carissa Bishop '17</b> , (2015 HHMI SCOPE), Screening for <i>Angiostrongylus cantonensis</i> in native apple snails, Employed in biotech lab
11/2013 – 12/2016	<b>Sofia Campos '16</b> , (2014/2016 HHMI SCOPE summer student), Phylogenetics and phylogeography of <i>Pomacea</i> spp. in Uruguay, Employed at wellness center
08/2015 – 05/2016	<b>Bianca Perez '16</b> , Japanese mysterysnail identification, State Biologist, West Virginia
07/2014 – 05/2016	<b>Paul Glasheen '16</b> , Honors Student, Hybridization potential of <i>Pomacea</i> spp. in native range of Uruguay, Searching for MD Residencies, Psychology
11/2013 – 05/2015	<b>Averi Segrest '16</b> , SU AB Major, Native apple snails and invasive bivalves, Self-employed businesswoman
11/2013 – 01/2016	<b>Ryan Beeman '17</b> , SU Math Major, Modelling and morphometrics of apple snails
03/2015 – 10/2015	<b>Sarah Wilting '17</b> , SU Biology Major (2015 HHMI), acidification and apple snails
01/2013 – 05/2015	<b>Carson Savrick, '15</b> (BS Biology) Origin of established <i>Pomacea</i> across southeastern US, Accepted 2017 into medical school at UT Medical - Houston
11/2013 – 05/2015	<b>Allie Watts '15</b> , (AB capstone; 2014 HHMI); Chemical cue responses to predators by hatchling <i>Pomacea maculata</i> , Employed environmental non-profit
03/2013 – 01/2015	<b>Amy Miller '16</b> (Jr. Yr. Work; 2013 HHMI & 13-14 UR) Genetic, anatomical and ecological work on <i>Felipponea</i>
08/2013 – 05/2014	<b>Rebecca Petro '14</b> (BA Biology & Art), Pink Eggs I Am (Science and Art Communication using apple snails)
06/2013 – 05/2014	<b>Amber Cochran '14</b> (BS Biology), Hatchling apple snail growth and survival; focus <i>P. megastoma</i>

05/2013 – 03/2014	<b>Alex Petrucci '16</b> , GIS Project with <i>Pomacea</i> , PhD student in neuroscience
03/2013 - 08/2013	<b>Alexandria Hill '13</b> (BS Biology); Turtle predation on hatchlings; <i>Pharmacist</i>
09/2011 – 05/2014	<b>Jonathan Miley '14</b> (BA Biology); Molecular ecology of <i>Pomacea</i>
09/2009 – 08/2013	<b>Allyson Plantz</b> (BA Biology & Art); Egg predation by riparian predators & reproduction of <i>P. megastoma</i> ; <i>Employed Girl Scouts, Arizona, non-profit.</i>
04/2010 – 12/2012	<b>Tracy Day</b> (BA Biology, Music minor, Paideia Scholar); Establishing trophic position of <i>P. maculata</i> ; <i>Employed, Georgetown, TX</i>
01/2011 – 05/2012	<b>Katie Gibson</b> (BA Animal Behavior; Minor Environmental Studies; Paideia Scholar) Putting on Mussel: Apple snail interactions with <i>Limnoperna</i> ; <i>Ph.D. student U. Georgia</i>
01/2011 – 05/2012	<b>Kevin Burge</b> (BA Biology; Minor Comp. Sci), pH impacts on hatchling apple snails

#### EXTERNAL GRANTS AND AWARDS FUNDED OR EARNED BY UNDERGRADUATES

- **2020: Lauren Muskara (\$250), Kaitlin Galassini (\$150), and Esther Nyaberi (\$50)**, Best undergraduate presentations, Texas Conservation Symposium, Georgetown, TX
- **2017: Madison Granier '19**, Best Oral Presentation in Section; University of Texas Molecular Biosciences
- **Granier: 2017 2<sup>nd</sup> place Texas Academy of Sciences**
- **Walsh & Winkler: 2018 3<sup>rd</sup> place Texas Academy of Sciences Research Award (Funded for \$1000)**
- **2017: Sofia Campos '16, 2<sup>nd</sup> Best Poster Overall**; Best Poster Presentation in Systematics and Evolution Section; TAS; \$200 presented
- **2017: Madison Granier '19**, Best Oral Presentation in Conservation Ecology Section; TAS; \$50 presented
- **2017: Carissa Bishop '17**, Best Oral Presentation in Freshwater Ecology Section; TAS; \$50 presented
- **2017: Carissa Bishop '17, Sofia Campos '16, Shannon Walsh '18 and Hugo Cepeda '18**, Undergraduate Poster Award in Science Education Section; TAS; \$50 presented

#### COURSES TAUGHT AT SOUTHWESTERN (in approximate frequency taught)

- Biology Capstone – Stress (2021); Biodiversity (2020); Invasion (2018)
- The Science of Chocolate (May Term 2017, 2020, 2021; Spring 2022)
- Paideia Seminar – The Anthropocene (team-taught; M. Johnson)
- Conservation Biology (Bi-annual)
- Biodiversity (Every Fall; 36+ sections); Now Living Systems
- Methods in Ecology and Evolution (Usually Every Spring)
- Ecology (alternate Spring; sections – see syllabus links on webpage or below)
  - Burks, R. L. 2012. Campus Ecology at Southwestern University
    - <http://ecoed.esa.org/index.php?P=FullRecord&ID=438>
- First Year Seminar: Dark Chocolate: Science and Culture (Fall when possible)
- Invertebrate Ecology/Biology (Every other Spring)
- Introduction to Animal Behavior
- Writing About Science (May Term 2012)
- Wetland Ecology and Policy (cross-listed with Environmental Studies)

#### RECENT NATIONAL OR INTERNATIONAL CONFERENCE PRESENTATIONS

**Category 1: INVITED PAPERS OR SPECIAL SESSIONS** (\* denotes undergraduate author, oral presentation unless otherwise noted, underline represents presenting author if not R. L. Burks)

- **Burks, R. L.**, Muskara, L. E.\*, S. E. Miller\*, K. Galassini\*, E. Nyaberi\*, and M.A. Barnes. December 2019. Genetic ABCs – COI to eDNA: Using barcoding lds to develop application for species detections of nonnative apple snails from water samples. Oral presentation. Triennial (3<sup>rd</sup>) Congress of the Argentinean Malacological Society. Bahia Blanca, Argentina.
- **Muskara, L. E.\*, S. E. Miller\***, M. A. Barnes, and **R. L. Burks**. May 2019. A snail out of water: Hitting the target on primer optimization for apple snails. Poster Presentation, Society for Freshwater Science, Salt Lake City, UT.
- **Burks, R. L.** August 2018. Wait, wait, don't leave me: How to maintain research productivity with undergraduates after they graduates. Special Session: Students as Ecologists. INSPIRE Talk, Ecological Society of America, New Orleans. LA.
- **Burks, R. L.**, S. R. Campos\*, P. M. Glasheen\*, C. A. Bishop\*, A. H. Segrest\*, C. Calvo, M. Meerhoff, F. Scarabino, A. E. Röhrdanz, C. Clavijo and K. A. Hayes. 2017. Overlapping and overlooked: *Pomacea* species distribution, diversity and hybridization in Uruguay. Ampullariidae Symposium, XCLAMA 10th meeting de la Asociación Latinoamericana de

Malacología (ALM). Piriapolis, UR.

### **Category 2: CONTRIBUTED PAPERS AT NATIONAL OR REGIONAL CONFERENCE**

(\* denotes undergraduate author, underline indicates presenting author if not R. L. Burks)

- Burks, R. L. 2020. Looking at and beyond the horizon: Studying non-native apple snails in Texas and diversity across the globe. Oral Presentation. Texas Conservation Symposium, Georgetown, TX.
- Muskara, L. M.\*, S. Miller\*, R. L. Burks and M. A. Barnes. 2020. Indicating invasion with eDNA: Detecting apple snails along Oyster Creek. Oral Presentation. Texas Conservation Symposium, Georgetown, TX.
- Galassini, K., E. Nyaberi\*, R. L. Burks and M. A. Barnes. 2020. Old school or new school: Comparing the efficiency of eDNA sampling by hand and with the ANDe™ eDNA backpack. Texas Conservation Symposium, Georgetown, TX.
- Nyaberi, E.\*, K. Galassini\* R. L. Burks and M. A. Barnes. 2020. Effect of the degradation of eDNA in the presence of microplastics. Texas Conservation Symposium, Georgetown, TX.

### **EXAMPLE INVITED LECTURES AND PRESENTATIONS**

- ▲ Burks, R. L. The nature of knowing and the science of environmental DNA. Paideia Connections Lecture 10/21
- ▲ Burks, R. L. Worth every pound? Why to invest in Fine Chocolate. Corinthia Hotel, London, and Brighton Chocolate Festival, United Kingdom. October 2019.
- ▲ Burks, R. L. Is there a genetically engineered future for chocolate?. Northwest Chocolate Festival. Nov. 2018.
- ▲ Burks, R. L. Delicious Science. New England Chocolate Festival. October 2018.
- ▲ Burks, R. L. The Future of Chocolate. Dallas Chocolate Festival. September 2018..
- ▲ Burks, R. L. Tackling the chocolate wall. Dallas Chocolate Festival. September 2017.
- ▲ Burks, R. L. Fermentology and Chocolate with SRSLY Chocolate. The Thinkery. February 2017.

### **UNIVERSITY SERVICE:**

2021 - current	External Member, Statistics Faculty Search
2020 – current	First Year Seminar Committee
2021 – current	Faculty Steering Committee
2020 – 2021	Member, Environmental Science Faculty Search
2020 – 2021	External Member, Computer Science Faculty Search
2017 – 2020	Biology Department Chairperson
2017 – 2020	Sustainability Committee (Chair in 2019-2020)
2015 – 2020	Institutional Animal Care and Use Committee
2010 – current	Environmental Studies Committee (2012-2017 Co-Chair)
2002 – current	<i>Phi Beta Kappa</i> Committee, 2010-2011 President

### **RECENT DEPARTMENTAL SERVICE - Southwestern University**

- Webmaster for Department sites
- Creator and Publisher of *BioScope*, Biology Department newsletter
  - Links: <http://www.southwestern.edu/live/files/5570-bioscopefall16-082316pdf>

### **EDITORIAL RESPONSIBILITIES:**

- 2012 – current, *Freshwater Biology* (Editorial Board)
- 2010 – 2017, *The American Midland Naturalist* (Associate Editor)

### **PROFESSIONAL MEMBERSHIPS**

- 2017 – present, Freshwater Mollusk Conservation Society
- 2013 – present, American Association of University Professors (AAUP), member

- 2009 – present, *American Association for the Advancement of Science*, member
- 2005 – present, *Sigma Xi Research Society*, elected member
- 2004 – present, *Texas Academy of Sciences* member
  - 2009 – 2012: 4 year term: Vice President, President-Elect, President, Past-President
  - 2007, Chair for Marine and Freshwater Section
  - 2006, Vice-Chairperson for Marine and Freshwater Ecology Section
- 1997 – present, *Ecological Society of America (ESA)* member
  - 2010-2011, RUI Section Chair
- 1992 – present, *Society for Freshwater Science (formerly NABS)* member:
  - Mentor for graduate students
  - 2006, Appointed Sponsorship Committee (2007-2009 Chair)
  - 2002, International Profile Committee
  - 2001, Organized Student Presentation Judging
  - 2001-present, Student Presentation Judge (orals and posters)
  - 1999, Appointed member of the NABS Long-Range Planning Committee
  - 1998 – 1999 Chairperson, NABS Graduate Resources Committee (GRC)
  - 1996 – 1997 NABS Endowment Festivities Coordinator
  - 1996 Co-founder, NABS GRC to address student concerns, 3-year member
- 2004 – 2007, *National Association of Biology Teachers* member
- 1997 – 2008, *American Society of Limnology and Oceanography*:
  - 2005-2007, Meetings Committee
  - 2001-present, Student Poster Judge
  - 1997 – 1999 ASLO Endowment Committee Member

**REVIEWER ACTIVITIES (JOURNALS)**- *Acta Oecologia, Animal Behaviour, Annals of Applied Biology (new), Aquatic Botany, Aquaculture, Aquatic Invasions, Biological Invasions, Bioinvasion Records, Biological Bulletin, BioScience, Diversity and Distributions, Environmental DNA, Fresenius Environmental Bulletin, Archiv für Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, CUR Quarterly, Ecology, Ecological Research, Ethology, Freshwater Biology, Frontiers in Ecology and Evolution, Functional Ecology, Hydrobiologia, Invertebrate Reproduction and Development, Journal of Chemical Ecology, Journal of Ecology, Journal of Ethology, Journal of Herpetology, Journal of Experimental Marine Biology and Ecology, Journal of Experimental Agriculture, Journal of Limnology (new), Journal of the North American Benthological Society/Journal of Freshwater Science, Journal of Pest Management, Limnetica, Limnology and Oceanography, Malacologia, Marine & Freshwater Research, PeerJ, PLOS One, Scientific Reports, Southeastern Naturalist, Studies on Neotropical Fauna and Environmental, Tropical Biology, Turkish Journal of Zoology, Wetlands*

**REVIEWER ACTIVITIES (GRANTS)**-*Ecology Program, National Science Foundation, Estonia Research Foundation, and US Fish and Wildlife Service, Polish Research Service (new)*

#### **Teaching:**

- 07/14/2020 - Profile on Research Student Esther Nyaberi – Becoming a Better Thinker Through Science
  - <https://www.southwestern.edu/live/news/14197-becoming-a-better-thinker-through-science>

#### **Research:**

- July 2020: Concern about apple snails growing
  - <https://sanantonioreport.org/growing-apple-snail-population-in-san-antonio-river-raises-concerns>

#### **Outreach:**

- 10/03/19: "Romi Burks, Ms. Homecoming 2019"
  - <https://www.southwestern.edu/live/news/13611-romi-burks-ms-homecoming-2019>
- 11/18/17: "SMARteams celebrates its 20th semester at Southwestern"
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