

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

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

RECENT HONORS, LEADERSHIP ROLES & AWARDS

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/>)
2011 – 2013 Faculty Participant, National Science Foundation (NSF)-CCLI: Developing and
Assessing Process Skills in Conservation Biology and Other Integrative Fields
2010 - 2012 Executive Officer, Researchers at Undergraduate Institutions Section, ESA
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
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

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

- 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. Not all apple snails are golden: Identity, reproductive potential, distribution, ecology and management of invasive *Pomacea maculata* in the southern United States. Invited and accepted for 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://d32ogooqmya1dw8.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*). *PLoSOne* 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.

MAJOR EXTERNAL FUNDING

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	National Science Foundation, IRES Planning Grant (\$18,670)
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

MENTORING EXPERIENCE (i.e. UNDERGRADUATE RESEARCHERS)

New students:

05/2017 – present **Hannah Winkler**, sophomore, project to be determined

Molecular ecology researchers with established independent projects:

08/2016 – present **Shannon Walsh**, senior, Identity of Chinese and Japanese mysterysnails

08/2016 – present **Hugo Cepeda**, senior, Hybridization of native apple snails

01/2016 – present **Madison Granier** (2016 HHMI SCOPE), junior, eDNA and apple snails

Past SU Students (with at least two semesters of research or summer work):

03/2015 – 06/2017 **Carissa Bishop**, (2015 HHMI SCOPE), Screening for *Angiostrongylus cantonensis* in native apple snails, currently seeking employment

11/2013 – 12/2016 **Sofia Campos**, (2014/2016 HHMI SCOPE summer student), Phylogenetics and phylogeography of *Pomacea* spp. in Uruguay, *Molecular technician, Honduras (June)*

08/2015 – 05/2016 **Bianca Perez**, Japanese mysterysnail identification, *Texas A&M Technician*

07/2014 – 05/2016 **Paul Glasheen**, Honors Student, Hybridization potential of *Pomacea* spp. in native range of Uruguay, *Accepted 2017 into medical school at U. Colorado Denver*

11/2013 – 05/2015 **Averi Segrest**, SU Senior AB Major, Native apple snails and invasive bivalves

11/2013 – 01/2016 **Ryan Beeman**, SU Math Major, Modelling and morphometrics of apple snails

03/2015 – 10/2015 **Sarah Wilting**, SU Biology Major (2015 HHMI), acidification and apple snails

01/2013 – 05/2015 **Carson Savrick, '15** (BS Biology) Origin of established *Pomacea* across southeastern US, *Accepted 2017 into medical school at UT Medical - Houston*

11/2013 – 05/2015 **Allie Watts '15**, (AB capstone; 2014 HHMI); Chemical cue responses to predators by hatchling *Pomacea maculata*

03/2013 – 01/2015 **Amy Miller '16** (Jr. Yr. Work; 2013 HHMI & 13-14 UR) Genetic, anatomical and ecological work on *Felipponea*

08/2013 – 05/2014 **Rebecca Petro '14** (BA Biology & Art), *Pink Eggs I Am (Science and Art Communication using apple snails);*

06/2013 – 05/2014 **Amber Cochran '14** (BS Biology), Hatchling apple snail growth and survival; focus *P. megastoma*

05/2013 – 03/2014 **Alex Petrucci '16**, GIS Project with *Pomacea*

03/2013 - 08/2013 **Alexandria Hill '13** (BS Biology); Turtle predation on hatchlings; *Pharmacy school*

09/2011 – 05/2014 **Jonathan Miley '14** (BA Biology); Molecular ecology of *Pomacea*

09/2009 – 08/2013 **Allyson Plantz** (BA Biology & Art); Egg predation by riparian predators & reproduction of *P. megastoma*; *TCEQ; Peace Corps - Guatamala*

04/2010 – 12/2012 **Tracy Day** (BA Biology, Music minor, Paideia Scholar); Establishing trophic position of *P. maculata*; *Employed, Georgetown, TX*

01/2011 – 05/2012 **Katie Gibson** (BA Animal Behavior; Minor Environmental Studies; Paideia Scholar) Putting on Mussel: Apple snail interactions with *Limnoperna*; *Ph.D. student U. Georgia*

01/2011 – 05/2012 **Kevin Burge** (BA Biology; Minor Comp. Sci), pH impacts on hatchling apple snails

01/2009 – 05/2011 **Megan (Rice) Shelton** (BS Biology; 2011 Biology Student of the Year) Disturbing environments: post-hatching survival of apple snails; *Medical Resident*

04/2008 – 05/2010 **Matthew Trawick** (BA Environmental Studies; Minor Biology), Hatchling survival success versus water stress; MS in Public Policy, Texas Tech; *JD University of Michigan: Lawyer, Environmental Protection Agency*

08/2008 – 05/2010	Olivia Stanzer (BS Biology), Persistence of pink: ecological role of ovorubin protein; <i>PhD, Physical Therapy</i>
04/2009 – 08/2010	Alexis Kropf '12 (BA Biology, 2012 Biology Student of the Year, BA Anthropology), Relationship of fecundity & female snail size; <i>Medical student at UT Southwestern</i>
08/2008 – 05/2009	Scott Manusov (BS Biology) Natural and induced aggregation patterns in <i>P. insularum</i> . <i>Chemistry Lab technician and Science Tutor.</i>
04/2007 – 05/2009	James McDonough (BS Biology), Field oviposition in <i>P. insularum</i> ; <i>MD Resident</i>
01/2007 – 05/2009	Colin Kyle (BS Biology), Honors Student , Oviposition behavior of <i>P. insularum</i> (now <i>P. maculata</i>). <i>Ph.D. 2015 University of Chicago: Current Postdoctoral Researcher.</i>
08/2006 – 5/2008	Sarah Hensley (BS Biology), Juvenile consumption of exotic plants. <i>Ph.D. 2014 University of Massachusetts at Amherst: AP High School Teacher.</i>
04/2006 – 05/2007	Abby Youens (BA Biology), Growing at a Snail's Pace: Juvenile growth patterns. <i>Completed M.S. Public Health at UTHSC Houston; MD Resident.</i>
08/2004 – 05/2007	Brandon Boland (BS Biology, Paideia Scholar), Understanding mechanisms behind food choice in the channelled apple snails. <i>Ph.D. 2015 University of Chicago: Current Postdoctoral Researcher.</i>
05/2005 – 06/2006	Matthew Barnes (BA Biology), Honors Student , The Snail and the Egg: understanding the egg-hatchling transition in apple snails. <i>Ph.D. 2013 University of Notre Dame; Faculty, Texas Tech.</i>
08/2004 – 05/2005	Cathy Duong (BA Biology, Paideia Scholar), Temperature and chemical cues influences on diel horizontal migration of <i>Daphnia</i> . <i>Employed at corporate real estate firm working with tenants.</i>
08/2003 – 05/2005	Rebecca Marfurt (BA Environmental Studies), Life history and ecological impacts of the exotic channelled apple snail, <i>Pomacea "canaliculata (now P. insularum)."</i> <i>M.S. Aquatic Ecology at Texas State. OK DEQ and now environmental consultant</i>
08/2003 – 08/2005	Austin Hill (BS Biology). Dual effects of pesticides and chemical cues on <i>Daphnia</i> growth and reproduction. <i>Finished M.S. at Texas State.</i>

EXTERNAL GRANTS FUNDED BY UNDERGRADUATES

- **Granier:** 2017 2nd place Texas Academy of Sciences Research Award (**Funded for \$1500**)
- **Bishop:** 2016 Sigma Xi Grants-in-Aid (**\$500 awarded**)
- **Beeman:** 2015 Sigma Xi Grants-in-Aid (**\$400 awarded; \$285 returned;**project did not materialize)
- **Savrick:** 2014 Sigma Xi Grants-in-Aid (**\$500 awarded**)
- **Day:** 2012 Texas Academy of Sciences Research Award (**Funded for \$1000**)
- **Plantz:** 2010 Sigma Xi Grants-in-Aid (**\$800 awarded**); 2011 Texas Academy of Sciences Research Award (**Funded for \$1500**)
- **Stanzer:** 2009 Sigma Xi Grants-in-Aid (**\$400 awarded**)
- **Kyle and McDonough:** 2008 Texas Academy of Sciences Research Award (**Funded for \$1000**); student collaborators for Mundy Faculty Fellowship (**Funded for ~\$9000**)
- **Barnes/Boland:** 2006 Texas Academy of Sciences Research Award (**Funded for \$750 each**)

EXTERNAL AWARDS EARNED BY UNDERGRADUATES

- **2017: Sofia Campos '16, 2nd Best Poster Overall;** Best Poster Presentation in Systematics and Evolution Section; Texas Academy of Sciences; \$200 presented
- **2017: Madison Granier '19,** Best Oral Presentation in Conservation Ecology Section; Texas Academy of Sciences; \$50 presented

- **2017: Carissa Bishop '17**, Best Oral Presentation in Freshwater Ecology Section; Texas Academy of Sciences; \$50 presented
- **2017: Carissa Bishop '17, Sofia Campos '16, Shannon Walsh '18 and Hugo Cepeda '18**, Undergraduate Poster Award in Science Education Section; Texas Academy of Sciences; \$50 presented
- **2016: Carissa Bishop '17**, Best Poster Presentation in Freshwater Ecology Section; Texas Academy of Sciences; \$50 presented
- **2016: Victoria Gamboa '19** (undergraduate at UTRGV), Best Poster Presentation in Systematics and Evolutionary Biology Section; Texas Academy of Sciences; \$50 presented
- **2015: Carson Savrick '15**, Best Oral Presentation in Freshwater Ecology Section; Texas Academy of Sciences; \$50 presented
- **2015: Averi Segrest '16**, Travel Grant (\$785) to Society for Freshwater Science as part of Instars Program.
- **2010: Colin Kyle '09**, Travel Grant (\$500) to Ecological Society of America to present undergraduate research. Strategic Environmental Research and Development Program, Defense Department.
- **2010: Colin Kyle '09**, National Science Foundation Graduate Research Fellowship
- **2010: Matt Trawick '10**, Outstanding Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Tarleton State University. \$300 presented; Best Abstract in Freshwater Ecology Section; \$100 presented
- **2009: Matt Trawick, Olivia Stanzer, Brandon O'Connor, Ryan Saurage, Allyson Plantz and Jessilyn Massey**. \$2950 from King Creativity Grant for documentary about invasive species and public perceptions: "Snakes, Snails and Yuppie Tales"
- **2008: Sarah Hensley '08**, Honorable Mention for Best Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Texas A&M Corpus Christi. \$50 presented to student.
- **2006: Brandon Boland '07**, Outstanding Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Lamar University. \$300 presented to student.
- **2005: Rebecca Marfurt '05**, Travel Award (\$285) to the Freshwater Mollusk Conservation Society Meeting in St. Paul, MN.

PEDAGOGICAL WORKSHOPS GIVEN

- June 2016: *Quasi-flipped: Fostering critical thinking and studying skills in detail-rich courses through in-class activities*, HHMI Conference, Southwestern University
- February 2016: U R What U Tweet: Applying Your Work as a Teacher-Scholar to Twitter with Dr. Matthew Barnes, Texas Tech University.
- March 2015: Best Professional Advice Ever Received; Panel Discussion, Texas Academy of Science, University of Incarnate Word, San Antonio, TX.
- February 2014, 2016: The Science of Chocolate. Art.Science.Gallery, Austin, TX.
- August 2013: REEFS (Resources for Ecology & Education: Fair and Share) Presentation. Flip-cams & iPhones make presentations smarter: Encouraging better oral communication skills through reflective practice. Ecological Society of America (ESA) Meeting.
- March 2013: How Connected Do Scientists Need to Be? A look at social media options. Texas Academy of Science, Schreiner University, Kerrville, TX
- August 2011: REEFS (Resources for Ecology & Education: Fair and Share) Presentation of "Insects on the Menu: Entomophagy, ecology and climate change." Ecological Society of America (ESA)

COURSES TAUGHT AT SOUTHWESTERN (in approximate frequency taught)

- The Science of Chocolate (May Term)

- Paideia Seminar – The Anthropocene (team-taught; M. Johnson)
- Conservation Biology (Spring)
- Biodiversity (Every Fall; 36+ sections); Now Living Systems
- Methods in Ecology and Evolution (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)

NATIONAL OR INTERNATIONAL CONFERENCE PRESENTATIONS SINCE 2010

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.** June 2017. Putting your lab classes (and resources) to work for you: An example of a molecular ecology course research module. Special Session: Scholarship of Teaching and Learning in Freshwater Science. Society for Freshwater Science, Raleigh, NC.
- **Burks, R. L.** May 2016. Worldly Science: Developing undergraduate research and mentoring activities to train diverse global scientists – a NSF-IRES case study. Special Session: Future Freshwater Science. Sacramento, CA.
- **Burks, R. L.,** C. Savrick*, A. D. Cochran*, A. L. Plantz*, R. Beeman* and K. A. Hayes. December 2014. Not all apple snails are invasive: Fecundity, life history, identity and distribution of native *Pomacea megastoma* in Uruguay. Invited oral presentation in Ampullariidae session of 3rd Uruguayan Congress of Zoology.
- Hayes, K. A. and R. L. Burks. December 2014. Systematics, biogeography and conservation of apple snails (Caenogastropoda: Ampullariidae) of the Río de la Plata Basin. Invited oral presentation in Ampullariidae session of 3rd Uruguayan Congress of Zoology.
- **Burks, R. L.,** A. L. Plantz*, M. E. Rice* and T. V. Day*. August 2011. Living on the edge: Potential fates of apple snail (*Pomacea insularum*) eggs laid on emergent vegetation in riparian areas. Special Session: “Pair Power.” Ecological Society of America, Austin, TX.
- **Burks, R. L.,** O. D. Stanzer*, M. E. Rice*, A. L. Plantz*, A. W. Kropf* and C. H. Kyle*. November 2010. Synthesizing studies of the island apple snail (*Pomacea insularum*) egg clutches to reveal ecological insights. Invited oral presentation. 4th International POMACEA Meeting. Tucuman, Argentina.

Category 2: CONTRIBUTED PAPERS AT NATIONAL OR REGIONAL CONFERENCE SINCE 2015

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

- Perez, K. P., V. G. Gamboa, C. M. Schneider* and **R. L. Burks.** 2017. Abandoned but not forgotten: Resaca supports invasive apple snails (*Pomacea maculata*, Perry, 1810; Caenogastropoda: Ampullariidae) within the Rio Grande Valley, Texas. Platform presentation. Freshwater Mollusk Conservation Society, Cleveland, OH.
- Bishop, C. A.* and **R. L. Burks.** 2017. Applying Band-Aids: Challenges associated with molecular detection of *Angiostrongylus cantonensis* infection within Uruguayan and Brazilian apple snails. Oral Presentation, Texas Academy of Science, Freshwater Science, University of Mary Hardin Baylor, Belton, TX.
- Bishop, C. A.*, S. R. Campos*, S. Walsh*, H. Cepada* and **R. L. Burks.** 2017. Innovating molecular art: Communicating the true cost of science through repurposed materials. Poster Presentation, Texas Academy of Science, Science Education, University of Mary Hardin Baylor, Belton, TX.
- Campos, S. R.*, C. Clavo, M. Meerhoff, K. A. Hayes and **R. L. Burks.** 2017. Cryptic yet curiously common: Population genetic structure and diversity of a cryptic *Pomacea* sp. and its better known congeneric *P. canaliculata*. Poster Presentation, Texas Academy of Science, Systematics and Evolution, University of Mary Hardin Baylor, Belton, TX.
- Granier, M., M. A. Barnes and **R. L. Burks.** 2017. Snail slime in real time: qPCR detection of environmental DNA

using apple snails. Oral Presentation, Texas Academy of Science, Conservation Biology, University of Mary Hardin Baylor, Belton, TX.

- Bishop, C. A.* and **R. L. Burks**. 2016. Can you see it now? Molecular screen for *Angiostrongylus cantonensis* in Uruguayan apple snails. Poster Presentation, Texas Academy of Science, Freshwater Science, Texas Tech University Llano Field Station, Junction, TX.
- Gamboa, V. G.*, **R. L. Burks** and K. E. Perez. 2016. Identification of a newly discovered population of apple snails (*Pomacea* spp., Family Ampullariidae) in the Rio Grande Valley. Poster Presentation, Texas Academy of Science, Systematics and Evolutionary Biology, Texas Tech University Llano Field Station, Junction, TX.
- Medellin, A., R. Minton, P. Glasheen*, and **R. L. Burks**. 2016. Desiccation tolerance of introduced *Pomacea maculata* populations in Texas. Poster Presentation, Texas Academy of Science, Freshwater Science, Texas Tech University Llano Field Station, Junction, TX.
- Perez, B.*, A. Segrest*, L. S. Campos*, **R. L. Burks** and R. Minton: 2016. New Record of Mystery Snails in Harris County Texas. Poster Presentation, Texas Academy of Science, Freshwater Science, Texas Tech University Llano Field Station, Junction, TX.
- Glasheen, P. M.*, C. Clavo, M. Meerhoff, **R. L. Burks** and K. A. Hayes. 2015. The snail also rises: Desiccation tolerance of *Pomacea* species (Gastropoda: Ampullariidae) Oral Presentation, American Malacological Society, University of Michigan Biological Station, Pellston, MI.
- Campos, L. S.*, C. Clavijo, F. Scarabino, **R. L. Burks** and K. A. Hayes. 2015. A tale of two species: Comparative phylogeography and genetic diversity of *Pomacea canaliculata* and a putative cryptic congeneric in the Rio de la Plata Basin. Oral Presentation, American Malacological Society, U. of Michigan Biological Station, Pellston, MI.
- Segrest, A.* C. Clavijo, K. A. Hayes and **R. L. Burks**. 2015. Sex despite the cost: Attachment of *Limnoperna fortunei* (Dunker, 1857) alters apple snail activities in native *Pomacea* species (Lamarck, 1822). Poster Presentation. Society for Freshwater Science, Milwaukee, WI.
- Campos, S. R.*, C. Clavijo, F. Scarabino, **R. L. Burks** and K. A. Hayes. 2015. A tale of two species: Comparative phylogeography and genetic diversity of *Pomacea canaliculata* and a putative cryptic congeneric in the Rio de la Plata Basin. Oral Presentation, Texas Academy of Science, Systematics and Evolutionary Biology, University of the Incarnate Word, San Antonio, TX.
- Savrick, C.*, **R. L. Burks** and K. A. Hayes. 2015. Spread of invasive *Pomacea maculata*, Perry, 1810 (Ampullariidae) in the southeastern United States. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.
- Segrest, A.* C. Clavijo, K. A. Hayes and **R. L. Burks**. 2015. Cling on me: Impacts of settlement of invasive *Limnoperna fortunei* (Dunker, 1857) on the native *Pomacea* spp (Lamarck, 1822) in Uruguay. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.
- Watts, A.* and **R. L. Burks**. 2015. Cued in: Hatchling *Pomacea maculata* behavioral responses to predator chemical cues. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.

OTHER INVITED LECTURES AND PRESENTATIONS

- ^ **Burks, R. L.** Fermentology and Chocolate with SRSLY Chocolate. The Thinkery. February 2017.
- ^ **Burks, R. L.** Origins, Artisans and Special Beans: Trends in the US Bean. Midland Country Club. September 2016.
- ^ **Burks, R. L.** The Academic Side of Chocolate. University of Houston Clear Lake. April 2016.
- ^ **Burks, R. L.** Liberally Applied Chocolate: Arts & Science. Northwest Chocolate Festival, Seattle. October 2015.
- ^ **Burks, R. L.** Revenge of the Chocolate Nerds. Dallas Chocolate Conference. September 2015.
- ^ **Burks, R. L.** The science of chocolate. Art.Science.Gallery. February 2015.
- ^ **Burks, R. L.** The science of chocolate. Presentation for SU DC Alumni Association February 2013.
- ^ **Burks, R. L.** Building a strong research shell: Development of an externally funded, international, undergraduate research program. ECODAS Symposium, Honolulu, HI. October 2012
- ^ **Burks, R. L.** Chocolate, Science and More: melding your hobbies with your academic life. ECODAS

Symposium, Honolulu, HI. October 2012

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
 - 2012, Past-President
 - 2011, President
 - 2010, President-Elect
 - 2009, Vice 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

REVIEWER ACTIVITIES (JOURNALS)- *Acta Oecologia, Animal Behaviour, Annals of Applied Biology (new), Aquaculture, Aquatic Invasions, Biological Invasions, Diversity and Distributions, Fresenius Environmental Bulletin, Archiv für Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, CUR Quarterly (new), Ecology, 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 (new), Journal of Experimental Marine Biology and Ecology, Journal of Experimental Agriculture, Journal of the North American Benthological Society/Journal of Freshwater Science, Limnology and Oceanography, Malacologia (new), Marine & Freshwater Research, PLOS One (new), Southeastern Naturalist (new), 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*

PEDAGOGICAL - *John Wiley & Son, Current Contents, Pearson (Campus Ecology), Sinauer Publishing (Cain's Ecology), ETS, McGraw Hill (Brooker's Biology)*