

Emily Grace Weigel

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Education

- 2015 **Michigan State University (MSU)**, East Lansing, Michigan
NSF Bio/computational Evolution in Action CONSortium (BEACON)
Ph.D.s in Zoology and in Ecology, Evolutionary Biology & Behavior (EEBB)
Dissertation Title: The Effects of Social Experience on Sexual Selection in Threespine Sticklebacks (*Gasterosteus aculeatus*)
Certificate in College Science Teaching
- 2010 **Georgia Institute of Technology (Georgia Tech)**, Atlanta, Georgia
Bachelor of Science in Applied Biology, Highest Honors
- Honors Program Member
 - Degree Enhancements: International Plan and Research Option
 - Minor: German
 - Certificate: Integrative Biology
- 2008 –2009 **Technical University of Munich**, Munich, Germany
Exchange Student

Appointments

- 2016-present Academic Professional, School of Biological Sciences, Georgia Institute of Technology
- 2016 Course Instructor, Evolution-in-Action, Spelman College
- 2015-2016 NSF CURE (Course-Based Undergraduate Research Experiences)
Postdoctoral Fellow, Spelman College
- 2015- Course Instructor, Animal Behavior, Spelman College
- 2013 Course Instructor, Evolutionary Biology for Non-Life Scientists, MSU
- 2013 Science Communication Fellow, BEACON Center for the Study of Evolution
- 2013 Preparing Future Faculty for the Assessment of Student Learning Fellow, MSU
- 2012-2013 NSF Future Academic Scholars in Teaching (FAST) Fellow, MSU

Grants, Fellowships Honors, & Awards

Research and Teaching Grants

- 2016 NSF BEACON Grant, "Tracking the Evolution Discussion on Social Media". PIs: Dozier, Agrawal, Williams (NCA&T); Brown-Clarke (MSU); Walker (Highpoint University); and **Weigel** (Spelman). \$43,819.
- 2016 NSF BEACON Grant, "Writing Though STE(A)M: Engaging Evolution in Creative Spaces". PIs: Rohrbacher (NCA&T) and **Weigel** (Spelman). \$26,191.
- 2016 Spelman Scholarship of Teaching & Learning (SOTL) Publication Grant, "Progression of Written Explanations of Evolution". \$600.
- 2016 Spelman SOTL Pedagogy Grant, "Assessment". \$300.
- 2015 NSF BEACON Publication Grant, "Sexual Selection in Avida". \$1560.

- 2015 Spelman Workshop Grant, "Metacognition in the Classroom: Teaching, Learning and Assessment". \$300.
- 2014 Society for the Study of Evolution Outreach Grant, "Evolutionary Anthropology Activity: Examining Hominid Remains". \$800.
- 2013 MSU John R. Shaver Graduate Research Award. \$1800.
- 2011 MSU John R. Shaver Graduate Research Award. \$1200.

Travel grants

- 2016 NSF BEACON Spring Travel Grant. \$375.
- 2015 Society for the Study of Evolution Travel Grant. \$825.
- 2014 NSF BEACON Summer Conference Travel Grant. \$1000.
- 2014 EEBC Program Summer Travel Award. \$500.
- 2014 MSU Graduate School Travel Fellowship. \$350.
- 2014 NSF BEACON Spring Conference Travel Grant. \$1200.
- 2013 NSF BEACON Fall Conference Travel Grant. \$2409.
- 2013 NSF BEACON Travel Grant. \$1200.
- 2012 NSF BEACON Travel Grant. \$600.
- 2012 NSF BEACON Travel Grant. \$500.
- 2011 EEBC Travel Fellowship. \$400.
- 2011 NSF BEACON Travel Grant. \$1000.

Fellowships

- 2015 MSU College of Natural Science Dissertation Continuation Fellowship. \$6000.
- 2013 MSU College of Natural Science Dissertation Continuation Fellowship. \$4100.
- 2013 EEBC Program Summer Fellowship. \$1900.
- 2013 MSU Alliances for Graduate Education and the Professoriate, First Annual Leadership Institute Sponsored Fellow
- 2013 Preparing Future Faculty for the Assessment of Student Learning (PFF-ASL) Fellow
- 2013 Gates Foundation-MSU Massively Open Online Course (MOOC) Fellowship. \$1000.
- 2012-2013 NSF Future Academic Scholars in Teaching (FAST) Fellowship. \$2000.
- 2013 NSF BEACON Science Communication Fellow. ~\$22,300.
- 2012 EEBC Program Summer Fellowship. \$1800.
- 2012 Helsinki Summer School in Mathematical Ecology and Evolution 2012 Fellow (declined)
- 2010, 2012 NSF Graduate Research Fellowship, Honorable Mention
- 2010-2011 NSF BEACON Fellow, Sexual Selection Group

Honors and Awards

- 2014-2015 All-MSU Excellence-in-Teaching Award (6 awarded across the university). \$1000.
- 2014-2015 MSU College of Natural Science Excellence-in-Teaching Award (1 awarded). \$1000.
- 2014 Michigan Campus Compact Heart and Soul Award (Statewide Service Award)
- 2014 Women's Center of Greater Lansing Tribute to Women Award, Nominee
- 2014 AT&T Faculty – Staff Award Competition in Instructional Technology, Best Technology-Enhanced Learning Innovation (ZOL 890: Grad Evolution Course)
- 2014 AT&T Faculty – Staff Award Competition in Instructional Technology, Best Online Course (ISB202: Foundations of Science, Massively Open Online Course-MOOC)
- 2014 MSU Graduate Student Leader of the Year, Honorable Mention
- 2013 College of Natural Science Tracy Hammer Prof. Development Award. \$750.
- 2012-2013 Council of Graduate Students (COGS) Disciplinary Leadership Award. \$3800.
- 2013 NSF BEACON Representative, North American Gender Summit (Washington, D.C.)

2012	Women's Leadership Conference at MSU Student Keynote Speaker, Finalist
2012	MSU Department of Residence Education, "Learning Leader" Designation
2012	Bailey Scholars Teaching/Learning Program, Finalist
2012	MSU Graduate Academic Conference, Best Poster Presentation. \$500.
2009-2010	DAAD Deutsche Akademischer Austausch Dienst (German Academic Exchange Service), Young Ambassador

Publications

Peer-Reviewed:

1. **Weigel, E.**, Mead, L., & McElhinny, T. (*In prep*) How and why can knowledge of concepts in genetics improve student understanding of concepts in evolution?
2. Mead, L., Bundy, J., **Weigel, E.**, Fick, J., Hingst, F., Hodges, W., Peterson, H., and Crawford, C. (*In prep*). The Monkey and the Engineer: Part I: What makes us primates?
3. **Weigel, E.**, Bundy, J., Fick, J., Hingst, F., Hodges, W., Peterson, H., and Mead, L. (*In prep*). The Monkey and the Engineer: Part II: What makes us human?
4. **Weigel, E.** & Boughman, J.W. (*In Review*). Doing the right thing, the right amount: Male investment and reproductive success in sticklebacks.
5. Boughman, J.W., Keagy, J., & **Weigel, E.** (*In Revision*). Sexual Selection and Speciation. In: Oxford Bibliographies in Evolutionary Biology (J. Losos, ed.) *Oxford University Press, New York*.
6. Taylor, A. & **Weigel, E.** (2016). Get Students Connected with Scientists in Real-Time Inside or Outside of the Classroom Using Twitter. *The American Biology Teacher*. 78 (7): 599-602. [pdf](#)
7. **Weigel, E.**, Tinghitella, R. M., & Boughman, J.W. (2015). No evidence for adjustment of maternal investment under alternative mate availability regimes. *Journal of Fish Biology*. 88(2): 508–522. [pdf](#)
8. **Weigel, E.**,* Testa, N. D.,* Peer, A. & Garnett, S.C. (2015). Context matters: sexual signaling loss in digital organisms. *Ecology and Evolution*. 5(17):3725–3736. [pdf](#) *Co-First Authors
9. **Weigel, E.** (2015). Modern Graduate Student Mentors: Evidenced-Based Best Practices and Special Considerations for Mentoring Undergraduates in Ecology and Evolution. *Ideas in Ecology and Evolution* 8: 14–25. [pdf](#)
10. **Weigel, E.**, DeNieu, M., & Gall, A.J. (2014). Oh, Behave! Behavior as an interaction between genes and the environment. *The American Biology Teacher* 76(7): 460-465. [pdf](#) **Lesson featured at the 2014 Professional Development Conference of the National Association of Biology Teachers (Cleveland, OH) during the BEACON/NESCent Evolution Teacher Workshop - "Evolution in Action"
11. Tran, M.V., **Weigel, E.**, & Richmond, G. (2014). Analyzing Upper Level Undergraduate Knowledge of Evolutionary Processes: Can Class Discussions Help? *Journal of College Science Teaching* 43(5): 80-90. [pdf](#)

12. Tinghitella, R. M., **Weigel, E.**, Head, M., & Boughman, J.W. (2013). Flexible mate choice when mates are rare and time is short. *Ecology and Evolution*. 3 (9): 2820–2831. [pdf](#)
13. Zielke, H., Adamzyk, C., Berens, M., Conrad, R., Geringer, M., Oellers, J., Ottermanns, R., Rehage, N., Schneider, A.J., Simon, A., Spira D., **Weigel, E.**, Ahlf, W., Feiler U., Seiler T.-B. and Hollert, H. (2011) A question of timing - Time-dependence of results in three sediment contact test systems using fish embryos, bacteria and nematodes. Doctoral Dissertation. Chapter 3, pages 45-73. [pdf](#)
14. **Weigel, E.** (2008). Rotifer Ecotoxicology: Behavioral Avoidance of Toxicants. *Honors Thesis*. Georgia Tech ePublications. Faculty Advisor: Dr. Terry Snell, Second Reader: Dr. Julia Kubanek [pdf](#)

Other Publications:

1. **Weigel, E.** (2014). Discussing evolution is fruitful: Or, Why I don't shut up about evolution. NSF BEACON Evolution 101. Blog of BEACON: An NSF Center for the Study of Evolution in Action.
2. **Weigel, E.** (2014). Mock Interviews are Nothing to Mock. NSF BEACON Evolution 101. Blog of BEACON: An NSF Center for the Study of Evolution in Action.
3. **Weigel, E.** (2013). BEACON Buzz. Bi-Monthly Newsletter of BEACON: An NSF Center for the Study of Evolution in Action. *Multiple Editions*.
4. **Weigel, E.** (2012). Maternal Effects. NSF BEACON Evolution 101. Blog of BEACON: An NSF Center for the Study of Evolution in Action.
5. Tameesh, F.* & **Weigel, E.** (2012). Adaptive Dynamics Models and Game Theory. NSF BEACON Evolution 101. Blog of BEACON: An NSF Center for the Study of Evolution in Action. **Undergraduate Co-Author*
6. **Weigel, E.** (2011). The "Mating" Game. NSF BEACON Researchers at Work. Blog of BEACON: An NSF Center for the Study of Evolution in Action.
7. **Weigel, E.** (2009). A Night with Dan Gordon. November 2009 Issue. The HyPe: Georgia Tech Honors Program News.
8. **Weigel, E.** (2009). Verhaltensbeobachtungen an männliche Lisztäffchen (*Saguinus oedipus*) im Tierpark Hellabrunn (Behavioural observations on male cotton-top tamarins in Hellabrunn Zoo). Lehrstuhl für Tierökologie, Wissenschaftszentrum Weihenstephan, Technische Universität München (Department of Animal Ecology, Weihenstephan Science Center, Technical University of Munich). Betreuer (PI): Prof. Dr. R. Gerstmeier
9. **Weigel, E.** (2009). Investigation of bioavailability and uptake of pollutants from spiked sediments using the sediment contact assay with zebrafish – follow up project B. UROP International Projekt, Institut für Umweltforschung, RWTH Aachen.
10. **Weigel, E.** (2008). It's Not About The Money. September 2008 Issue. The HyPe: Georgia Tech

Presentations

1. **Weigel, E.**, and Boughman, J.W. (2016) Courtship experience and success affect male behavioral, morphological, and extended phenotypes. Oral Presentation. Evolution 2016, Austin Convention Center, Austin, TX, 6/17-21/2016.
2. Kovacs, J.L., **Weigel, E.**, Brown, K.* , and Werren, J.H. (2016). Evolutionary and Ecological Impacts of Horizontal Gene Transfer in Arthropods. Oral Presentation. Oral Presentation. Evolution 2016, Austin Convention Center, Austin, TX, 6/17-21/2016.
3. **Weigel, E.**, Kovacs, J.L., and Werren, J.H. (2016). Evolutionary novelty: Horizontal gene transfer in the kissing bug, *Rhodnius prolixus*. Poster Presentation. Institutional Research and Academic Career Development Awards (IRACDA) Annual Conference, University of Arizona, Tucson, AZ, 6/12-14/2016.
4. **Weigel, E.**, Mead, L., & McElhinny, T. (2016) How and why can knowledge of concepts in genetics improve student understanding of concepts in evolution? Poster Presentation. Institutional Research and Academic Career Development Awards (IRACDA) Annual Conference, University of Arizona, Tucson, AZ, 6/12-14/2016.
5. Brown, K.* , **Weigel, E.**, Kovacs, J.L., and Werren, J.H. (2016). Horizontal Gene Transfer in Arthropods. Oral Presentation. Spelman Research Day, Atlanta, Georgia, 4/15/2016.
**Undergraduate Co-Author*
6. Michel, B.* , **Weigel, E.**, and Kovacs, J.L (2016). Determining the Difference Between Commercial Honey and Hive Honey. Poster Presentation. Spelman Research Day, Atlanta, Georgia, 4/15/2016. **Undergraduate Co-Author*
7. Mobley, R.B., Foster, S.R.* , Tillotson, M.L.* , **Weigel, E.G.**, & Boughman, J.W. (2016) Fish Brains on Acid: Stickleback Visual and Olfactory Perception in Response to Altered Humic Environments. Midwestern Ecology & Evolution Conference, Miami University, Oxford, OH, 3/19-20/2016. **Undergraduate Co-Author*
8. Kovacs, J.L., **Weigel, E.**, Brown, K.* , and Werren, J.H. (2016). Evolutionary and Ecological Impacts of Horizontal Gene Transfer in Arthropods. Oral Presentation. Emerging Researchers National Conference in STEM, Washington, D.C., 2/25-27/2016. **Undergraduate Co-Author*
9. **Weigel, E.**, Kovacs, J.L., and Werren, J.H. (2016). Evolutionary novelty: Horizontal gene transfer in the kissing bug, *Rhodnius prolixus*. Oral Presentation. The Society for Integrative and Comparative Biology (SICB) Annual Meeting, Portland, Oregon, 1/3-7/2016.
10. Brown, K.* , **Weigel, E.**, Kovacs, J.L., and Werren, J.H. (2016). Identifying candidate shared horizontally transferred genes in the kissing bug, *Rhodnius prolixus*. Poster Presentation. The Society for Integrative and Comparative Biology (SICB) Annual Meeting, Portland, Oregon, 1/3-7/2016. **Undergraduate Co-Author*

11. **Weigel, E.**, Kovacs, J.L., and Werren, J.H. (2015). Evolutionary novelty: Horizontal gene transfer in the kissing bug, *Rhodnius prolixus*. Poster Presentation. The SouthEastern Ecology and Evolutionary Genetics (SEPEEG), Eatonton, Georgia. 10/23-25/2015.
12. **Weigel, E.** (2015). Sex and Experience: Does Practice Help? Weekly Seminar of BEACON: An NSF Center for the Study of Evolution in Action, East Lansing, Michigan. 9/18/2015.
13. **Weigel, E.**, and Boughman, JW. (2015) Short-term shifts in demography can have lasting consequences on extended phenotypes. Oral Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan. 8/15-18/2015.
14. Mobley, R.B., Foster, S.R.*, Tillotson, M.L.*, **Weigel, E.**, and Boughman, J.W. (2015) Multisensory Influences of Humic Acid on Threespine Stickleback Behavior. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan. 8/15-18/2015. *Undergraduate Co-Author
15. **Weigel, E.** and Taylor, A. (2015) #SciStuChat. Poster Presentation. ComSciCon, Microsoft New England Research & Development Center, Cambridge, MA 6/18-20/2015.
16. **Weigel, E.**, and Boughman, J.W. (2015) Doing the right thing, the right amount: Male investment and reproductive success in the threespine stickleback (*Gasterosteus aculeatus*). Oral Presentation. Southeastern Ecology and Evolution Conference, University of Georgia, Athens, Georgia, 3/13-15/2015.
17. **Weigel, E.**, Mead, L., & McElhinny, T. (2014). Curriculum Interplay: What Putting Genetics Courses First Can Show Us About How Students Understand Evolution. Oral Presentation. 2nd Life Discovery – Doing Science Education Conference, San José State University, San José, CA 10/3-4/2014.
18. **Weigel, E.**, and Boughman, J.W. (2014) Short-term density exposure affects male reproductive success in threespine stickleback (*Gasterosteus aculeatus*). Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan. 8/16-19/2014.
19. **Weigel, E.**, Mead, L., & McElhinny, T. (2014) Genetic Variation as a Pivotal Point in Genetics-to-Evolution Course Sequences. Oral Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan. 8/16-19/2014.
20. **Weigel, E.**, and Boughman, J.W. (2014) Short-term density exposure affects male reproductive success in threespine stickleback (*Gasterosteus aculeatus*). Poster Presentation. International Society for Behavioral Ecology, CUNY Animal Behavior Institute, Hunter College, City University of New York, NYC. 7/31-8/5/2014.
21. **Weigel, E.**, Mead, L., & McElhinny, T. (2014) How and why can knowledge of concepts in genetics improve student understanding of concepts in evolution? Poster Presentation. Society for the Advancement of Biology Education Research (SABER) National Meeting, University of Minnesota - Twin Cities, Minnesota 7/17-20/2014.

22. **Weigel, E.**, and Boughman, J.W. (2014) Short-term density exposure affects male reproductive success in threespine stickleback (*Gasterosteus aculeatus*). Oral Presentation. Evolution 2014, Raleigh Convention Center, Raleigh, NC 6/20-24/2014.
23. Tillotson, M.*, Foster, S. *, Mobley, R., **Weigel, E.**, and Boughman, JW. (2014). Testing the effect of reproductive state on olfaction in threespine stickleback. Poster Presentation. University Undergraduate Research and Arts Forum, East Lansing, MI, USA 4/4/2014. **Undergraduate Co-Author*
24. Rienne, G.*, **Weigel, E.**, and Boughman, J.W. (2014). Seasonal patterns of male stickleback (*Gasterosteus aculeatus*) courtship and nesting activity. Poster Presentation. University Undergraduate Research and Arts Forum, East Lansing, MI, USA 4/4/2014. **Undergraduate Co-Author, **Best Poster Presentation Winner***
25. Foster, S. *, **Weigel, E.**, and Boughman, J.W. (2014). Is bigger really better?: Nest size doesn't influence female mate choice in threespine stickleback (*Gasterosteus aculeatus*). Poster Presentation. University Undergraduate Research and Arts Forum, East Lansing, MI, USA 4/4/2014. **Undergraduate Co-Author*
26. **Weigel, E.** (2014). Temporal Patterns in Sexual Selection in Threespine Stickleback (*Gasterosteus aculeatus*). Oral Presentation. EDGE (Enthusiasts of Diversity, Genetics, and Evolution) Seminar. University of Georgia, Athens, Georgia, USA 3/7/2014.
27. **Weigel, E.** (2014). Traveling Through Time and Space: The CIRTL-Exchange Journey. Oral Presentation. NSF Center for the Integration of Research, Teaching, and Learning (CIRTL) Network Leaders Meeting. University of Georgia, Athens, Georgia, USA 3/7/2014.
28. **Weigel, E.** (2014). How and why can knowledge of concepts in genetics improve student understanding of evolution? Oral Presentation. Biology Education Research Group Seminar. University of Georgia, Athens, Georgia, USA 3/5/2014.
29. **Weigel, E.**, and Boughman, J.W. (2014) "Low" and Behold: Short-term exposure to low-density conditions is enough to positively influence male reproductive success in Threespine stickleback (*Gasterosteus aculeatus*). Oral Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Dayton, Dayton, Ohio, USA 3/1-2/2014. *(Invited)*
30. Cipolla, E. **, **Weigel, E.**, and Boughman, J.W. (2014). Differences observed in nesting and mating behavior in high and low density treatments of male stickleback fish. Poster Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Dayton, Dayton, Ohio, USA 3/1-2/2014. **Post-Baccalaureate Co-Author, +Co-Presenter*
31. Foster, S. **, **Weigel, E.**, and Boughman, J.W. (2014). Is bigger really better?: Nest size doesn't influence female mate choice in Threespine stickleback (*Gasterosteus aculeatus*). Poster Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Dayton, Dayton, Ohio, USA 3/1-2/2014. **Undergraduate Co-Author, +Co-Presenter*
32. Rienne, G. **, **Weigel, E.**, and Boughman, J.W. (2014). Seasonal Patterns of Male Stickleback (*Gasterosteus* spp.) Courtship and Nesting Activity. Poster Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Dayton, Dayton, Ohio, USA 3/1-2/2014.

**Undergraduate Co-Author, +Co-Presenter*

33. Rienne, G.**+, **Weigel, E.**, and Boughman, J.W. (2013). Seasonal Patterns of Male Stickleback (*Gasterosteus spp.*) Courtship and Nesting Activity. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Review, East Lansing, Michigan, USA 12/10/2013. **Undergraduate Co-Author, +Co-Presenter*
34. Cipolla, E.**+, **Weigel, E.**, and Boughman, J.W. (2013). Differences observed in nesting and mating behavior in high and low density treatments of male stickleback fish. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Review, East Lansing, Michigan, USA 12/10/2013. **Undergraduate Co-Author, +Co-Presenter*
35. **Weigel, E.** (2013) What is BEACON? Exhibit Presentation. National Association of Biology Teachers 75th Annual Meeting, Atlanta, Georgia, 11/21-22/2013.
36. **Weigel, E.**, Cipolla, E.*, Reh-Gingerich, A.*, and Boughman, J.W. (2013) Density impacts nest timing, not weight, in a stickleback fish. Poster Presentation. BEACON Day @ North Carolina A&T State University, Greensboro, North Carolina, 10/2-3/13. **Undergraduate Co-Author*
37. **Weigel, E.**, Cipolla, E.*, and Boughman, J.W. (2013) The effects of a density shift on nesting and mating behavior in a species of stickleback fish. Poster Presentation. Michigan Alliances for Graduate Education and the Professoriate (AGEP)-King-Chavez-Parks Future Faculty Fellows (KCP-FFF) Fall Conference, East Lansing, MI 9/6/2013. **Undergraduate Co-Author*
38. **Weigel, E.**, Cipolla, E.**+, Reh-Gingerich, A.* and Boughman, J.W. (2013) The effects of a density shift on nesting and mating behavior in a species of stickleback fish. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan 8/14/2013. **Undergraduate Co-Author, +Co-Presenter*
39. **Weigel, E.**, Mead, L., & McElhinny, T. (2013) The disorder of order: How genetics knowledge impacts student understanding of evolution. Oral Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan 8/14/2013.
40. Tinghitella, R. M., **Weigel, E.**, Head, M., & Boughman, J.W. (2013) Flexible mate choice when mates are rare and time is short. Oral Presentation. 50th Annual Conference of the Animal Behavior Society. Boulder, Colorado, USA. 7/28-8/1/2013.
41. Cipolla, E.*, **Weigel, E.**, and Boughman, J.W. (2013) The effects of a density shift on nesting and mating behavior in a species of stickleback fish. Poster Presentation. 2013 Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE). East Lansing, Michigan, USA 7/24/2013. **Undergraduate Co-Author*
42. **Weigel, E.** (2013). How and why can knowledge of concepts in genetics improve student understanding of evolution? Oral Presentation. MSU FAST Fellows Symposium. East Lansing, Michigan, USA 4/30/2013.
43. **Weigel, E.** (2013). How and why can knowledge of concepts in genetics improve student understanding of evolution? Oral Presentation. Symposium on Teaching, Learning and Graduate Education at MSU: A Joint Endeavor of FAST, IIT, and RCAH Fellows. East Lansing,

Michigan, USA 4/19/2013.

44. Reh-Gingerich, A.*, **Weigel, E.**, and Boughman, J.W. (2013). Male Courtship Activity Fluctuates Across the Season. Poster Presentation. University Undergraduate Research and Arts Forum. East Lansing, Michigan, USA 4/12-/2013. **Undergraduate Co-Author*
45. **Weigel, E.** (2013). Genetically Hardwired: How and why can knowledge of concepts in genetics improve student understanding of concepts in evolution? Oral Presentation. NSF Center for the Integration of Research, Teaching, and Learning (CIRTL) Online Teaching-as-Research Conference. 4/16/2013.
46. **Weigel, E.**, Tinghitella, R. M., & Boughman, J.W. (2013). Play the odds: Mate availability, not timing, impacts female reproductive investment. Oral Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Notre Dame, South Bend, Indiana, USA 3/22-24/2013.
47. Reh-Gingerich, A.* & **Weigel, E.** (2013). Male Courtship Activity Fluctuates Across the Season. Poster Presentation. Midwest Ecology and Evolution Conference (MEEC), University of Notre Dame, South Bend, Indiana, USA 3/22-24/2013. **Undergraduate Co-Author & **Best Undergraduate Poster Winner***
48. **Weigel, E.** (2013). Fishing for a Mate: Threespine Stickleback Mating Across the Season. Oral Presentation. Alliances for Graduate Education and the Professoriate (AGEP) Meeting, East Lansing, Michigan, USA 3/14/2012.
49. **Weigel, E.** & Reh-Gingerich, A.* (2012). Male Courtship Activity Fluctuates Across the Season. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Review, East Lansing, Michigan, USA 12/11/2012. **Undergraduate Co-Author*
50. **Weigel, E.** (2012). Sexual Signaling Loss in Empirical, Theoretical, and Digital Systems. Poster Presentation. Cyber Infrastructure Days. East Lansing, Michigan, USA 10/25/12-10/26/12.
51. **Weigel, E.** (2012). Sexual Signaling Loss in Empirical, Theoretical, and Digital Systems. Poster Presentation. NSF Science and Technology Center Annual Meeting. Arlington, Virginia, USA 8/28/12-8/29/12.
52. Tinghitella, R. M., **Weigel, E.**, & Boughman, J.W. (2012). Flexible mate choice in response to intrinsic and social cues: Effects of mate availability and time of season. Oral Presentation. Seventh International Conference on Stickleback Behavior and Evolution. Seattle, Washington, USA 7/29/12-8/4/12.
53. **Weigel, E.**, Tinghitella, R. M., & Boughman, J.W. (2012). Temporal fluctuations in clutch timing as a mechanism for sexual signaling loss. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan 7/17/2012.
54. Tinghitella, R. M., **Weigel, E.**, & Boughman, J.W. (2012). Flexible mate choice in response to extrinsic and intrinsic cues: Effects of mate availability and aging. Oral Presentation. First Joint Congress on Evolutionary Biology, Ottawa, Ontario, Canada 7/6-10/2012.

55. **Weigel, E.**, Tinghitella, R. M., & Boughman, J.W. (2012). Mate availability influences timing and number of clutches in sticklebacks. Poster Presentation. First Joint Congress on Evolutionary Biology, Ottawa, Ontario, Canada 7/6-10/2012.
56. **Weigel, E.** & Tinghitella, R. M. (2012). Mate availability and hybridization in the threespine stickleback. Poster Presentation. Council of Graduate Students Graduate Academic Conference, East Lansing, Michigan 3/30/2012. ****Best Poster Presentation Winner****
57. **Weigel, E.** & Tinghitella, R. M. (2012). Mate availability and hybridization in the threespine stickleback. Poster Presentation. Midwest Ecology and Evolution Conference, Cincinnati, Ohio 3/24/2011.
58. **Weigel, E.** & Tinghitella, R. M. (2011). Mate availability and hybridization in the threespine stickleback. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Review, East Lansing, Michigan 12/7/2011.
59. **Weigel, E.** & Tinghitella, R. M. (2011). Mate availability and hybridization in the threespine stickleback. Poster Presentation. BEACON: An NSF Center for the Study of Evolution in Action Annual Congress, East Lansing, Michigan 8/10/2011.
60. Lucek, K., Rowe, H., & **Weigel, E.** (2011). An analytically tractable model for competitive speciation. Oral Presentation. FroSpects Winter School for Eco-evolutionary Modeling of Speciation, Abisko, Sweden 3/11/2011.
61. **Weigel, E.** (2011). Sexual signaling loss. Oral Presentation. FroSpects Winter School for Eco-evolutionary Modeling of Speciation, Abisko, Sweden 3/7/2011.
62. **Weigel, E.** & Schenkl, B. (2010). Balancing roles: Working as a research and study liason to Germany while pursuing an undergraduate degree. Oral Presentation. DAAD North America Young Ambassador Conference, New York, New York 8/20/2010.
63. **Weigel, E.** (2010). The importance of international experience in undergraduate research. Oral Presentation. DAAD North American Young Ambassador Conference, New York, New York 8/20/2010.
64. **Weigel, E.** (2010). Behavioral Observations of Male Cotton-top Tamarins (*Saguinus oedipus*). Undergraduate Research Symposium. Poster Presentation. Atlanta, Georgia. 3/16/2010.
65. Zielke, H., Adamzyk, C., Rehage, R., **Weigel, E.**, Spira, D., Preuss, T.G., Schmidt, B., Feiler, U., Seiler, T.-B., and Hollert, H. (2009). Effects of ageing on bioavailability and uptake of pollutants from spiked sediments. SETAC-GLB Poster Presentation, Munich, 10/5-7/2009.
66. **Weigel, E.** (2009). What is *The Tower*? How to submit, work for, and find *The Tower* across campus. Undergraduate Research Kaleidoscope. Oral Presentation. Atlanta, Georgia 9/9/2009.
67. **Weigel, E.** (2009). Behavioral Observations of Male Cotton-top Tamarins (*Saguinus oedipus*): Role of Males in Cooperative Breeding. Tierpark Hellabrunn-Technical University of Munich: Zoo Behavioral Study Cooperation End-of-Year Review. Oral Presentation. Munich, Germany. 7/23/2009.

68. **Weigel, E.** (2008). Behavior of Cotton-top Tamarins (*Saguinus oedipus*) in Zoos. Tierpark Hellabrunn-Technical University of Munich: Zoo Behavioral Study Cooperation Fall Preview. Oral Presentation. Munich, Germany. 12/17/2008.
69. **Weigel, E.** (2008). Rotifer Ecotoxicology: Behavioral Avoidance of Toxicants. Honors Program Student Expo. Poster Presentation. Atlanta, Georgia. 4/24/2008.
70. **Weigel, E.** (2008). Honor Rolls: The Honors Program Bike Initiative. Honors Program Student Expo. Atlanta, Georgia. 4/24/2008.
71. **Weigel, E.** (2008). Rotifer Ecotoxicology: Behavioral Avoidance of Toxicants. Undergraduate Research Symposium. Poster Presentation. Atlanta, Georgia. 4/3/2008.

Invited Talks

1. [Hot or not? Just Try](#) (3/4/2015)- Science Research Presentation for TEDxMSU
2. *Oh, Behave! Behavior as an interaction between genes and the environment* (11/15/14)- BEACON/NESCent Evolution Teacher Workshop - "Evolution in Action" for the 2014 Professional Development Conference of the National Association of Biology Teachers
3. *Investment in Reproduction* (10/8/14)-ZOL 415: Ecological Aspects of Animal Behavior, MSU
4. *Threespine Stickleback as a Model of Evolution* (9/26/2014)- Brookwood High School AP Biology Program, Atlanta, GA
5. *Studying Threespine Sticklebacks* (1/26/2014)- Journalism (JRNL) 472/872-Science and Health Writing, MSU
6. *Genetics and Evolution in Natural Populations* (11/5/2013)- FW101:Introduction to Fisheries and Wildlife, MSU
7. *Natural and Sexual Selection in the Threespine Stickleback* (10/24/2013)- Brookwood High School AP Biology Program, Atlanta, GA
8. *The Disorder of Order: How Genetics Knowledge Impacts Student Understanding of Evolution* (9/18/2013)- CIRTL Teaching-As-Research (TAR) Graduate Webinar Series
9. *Temporal Impacts of Sexual Selection in Threespine Stickleback* (3/13/2013)- Ecology, Evolutionary Biology, and Behavior (EEBB) Program Colloquium
10. *Sex and Sexual Selection* (10/25/12)- BEACON Graduate Course (MSU and University of Washington), ZOL 890-601: Evolutionary Biology for Non-Life Scientists, MSU & UIdaho
11. *Exponential and Logistic Population Growth* (11/19/12)- BS162: Introduction to Organisms and Populations, MSU

Research Experience

- 7/2015 - present **Spelman College, Biology Department**
PI: Dr. Jennifer Kovacs
Atlanta, GA, USA
Postdoctoral Fellow, Shared Horizontal Gene Transfer in Arthropods
- 8/2010 - 11/2015 **Michigan State University, Zoology Department**
PI: Dr. Jenny Boughman
East Lansing, MI, USA
Graduate Research Assistant & NSF BEACON Research Fellow, Stickleback (*Gasterosteus aculeatus*) Behavior
- 4/2007 - 2/2010 **Georgia Institute of Technology, School of Biology**
PI: Dr. Terry Snell
Atlanta, Georgia, USA
Undergraduate Researcher, Rotifer (*Brachionus manjavacas*) Ecotoxicology, Behavior, and Gene Expression
- 10/2008 - 7/2009 **Tierpark Hellabrunn-Technical University of Munich: Zoo Behavioral Study Cooperation**
PI: Prof. Dr. Roland Gerstmeier
Munich, Germany
Undergraduate Researcher, Male Cotton-Top Tamarin (*Saguinus oedipus*) Behavior and Development
- 2/2009 - 4/2009 **RWTH Aachen University, Department for Ecosystem Analysis**
PI: Dr. Henner Hollert
Aachen, Germany
Undergraduate Researcher, DCA- and Fluroanthene-doped Sediment Contact Assays with Zebrafish (*Danio rerio*) embryos
- 4/2009 - 6/2009 **Technical University of Munich, Department of Molecular Zoology**
PI: Prof. Dr. Ralph Kühn
Munich, Germany
Undergraduate Researcher, Repetitive Transcranial Magnetic Stimulation (rTMS) and Genetic Expression of Galanin in *in vitro* Mouse (*Mus musculus*) embryonic cell cultures

Additional Research, Communication, and Teaching Training

2016-	Fellowships in Research and Science Teaching (FIRST) Program Teaching Course, Emory University
2011-2015	Certificate in College Teaching Program, Michigan State University
9/2014 - 10/2014	SciFund Challenge Outreach Class for Scientists, Online course through SciFund
1/2013 - 5/2013	How to Design and Teach Science Courses Online, MSU
1/2013	Science Online 2013 Science Communication Conference
8/2012 - 11/2012	NSF Center for the Integration of Teaching, Research, and Learning (CIRTL) Course: Research Mentoring, Online course through University of WI-Madison
8/2012 - 10/2012	NSF Center for the Integration of Teaching, Research, and Learning (CIRTL) Course: Pathways to Scientific Teaching, MSU
5/2012	University Graduate Certification in College Teaching Institute
5/ 2011	FROspects Winter School for Eco-Evolutionary Modeling of Speciation (Mathematical Modeling); Abisko, Sweden
5/2009	Zoological Field Study: Native Fauna of the Garda Region; Garda, Italy
10/ 2009	American Council for the Teaching of Foreign Languages: German Teaching Certification

Teaching and Curriculum Development Experience

Majors Courses

Spring 2016	Evolution-in-Action, Course Instructor , <i>Spelman College</i>
Summer 2015	Fundamental Genetics, Graduate TA and Remote Testing Coordinator , <i>MSU</i>
Spring 2015	Animal Behavior, Course Instructor , <i>Spelman College</i>
Summer 2013	Fundamental Genetics, Online Section, Graduate TA , <i>MSU</i>
Spring 2012	Organisms and Populations Laboratory, Curriculum Development , <i>MSU</i>
Fall 2012	Ecological Aspects of Animal Behavior, Graduate TA & Discussion Leader , <i>MSU</i>
Fall 2011- 2012	Organisms and Populations Laboratory, Laboratory Instructor , <i>MSU</i>
Fall 2011, 2012	Organisms and Populations Lecture, Graduate TA , <i>MSU</i>
Fall 2007, 2009	GT1000 Freshman Introductory Course: Biology Major Section, Team Leader , <i>GT</i>

Non-Majors Courses

Spring 2014	Water, Food, and the Environment, Laboratory Instructor , <i>MSU</i>
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Graduate and Continuing Education Courses

Fall 2013	Evolutionary Biology for Non-Life Scientists, Co-Instructor <i>MSU & University of Idaho</i>
Spring/Summer 2013	Foundations of Science, Curriculum Development , <i>MSU</i> <i>Gates-Foundation-Supported Massively Open Online Course (MOOC)</i>
Spring 2012	Multidisciplinary Approaches to the Study of Evolution, Graduate TA , <i>MSU</i>

Extracurricular and Service Activities

Academic Service

Leadership and Service on Committees and in National/Campus Organizations

2016	NSF Pre-Proposal Panel Reviewer
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2015 NSF Science and Technology Center Annual Meeting, BEACON Representative
 2013-2015 MSU Graduate Student Representative, Zoology Curriculum Committee
 2013-2014 MSU Women's Advisory Committee to the Vice President for Student Affairs & Services
 2013 Founding Member, **C**ollaborative **R**esearch in **E**ducation, **A**ssessment, and **T**eaching **E**nvironments for the fields of **S**cience, **T**echnology, **E**ngineering, and **M**athematics. (CREATEforSTEM) Graduate Student Group at MSU
 2012-2013 MSU Graduate Student Representative to Zoology Faculty & Chair Search
 2012- BEACON Student / Postdoc Association, MSU Liaison
 2012 BEACON Faculty Interview Usher
 2011 BEACON Graduate Student Focus Group
 2011 MSU Zoology Representative to COGS (Council of Graduate Students)
 2011 MSU COGS Representative to the All University Traffic and Transit Committee
 2011-2013 MSU Graduate Women in Science (GWIS) Chapter Liaison and Vice President
 2011- MSU GWIS Professional Development Committee
 2010-2011 MSU GWIS Community Outreach Committee, Chair
 2010- MSU GWIS Undergraduate Mentoring Committee
 2010- MSU GWIS Community Outreach Committee
 2010-2011 MSU Owen Graduate Association (OGA) Logistics Coordinator
 2010 Appointed MSU OGA representative to COGS
 2009-2010 GT Biology Student Advisory Committee, Co-President
 2007-2010 GT Clough Undergraduate Learning Center, Biology Student Representative
 2008-2010 GT Study Abroad Student Advisor
 2008 GT Executive Search Committee of International Education
 2007-2008 GT Women's Rugby, Vice-President
 2007-2008 GT Biology Student Advisory Committee, Vice President of Public Relations
 2006-2007 SGA Academic Affairs Committee
 2006-2007 GT Honors Program Residence Hall, President
 2006-2007 GT Women's Rugby, Co-Founder and Fundraising Chair

Service in Writing, Reviewing, and Editorial Boards

2016 NSF Panel Reviewer (DEB/IOS)
 2016 Faculty Reviewer, Spelman's Undergraduate Research Journal, *Continuum*
 2016 Board of Editors, *Life: The Excitement of Biology*
 2016 Evidence-Based Argument Development for Middle-School NGSS (In Collaboration with Dr. Todd Reeves, through funding from Northern Illinois University's Center for the Interdisciplinary Study of Language and Literacy)
 2015 Reviewer, *Evolution Education and Outreach*
 2014- Reviewing Editor, *The American Biology Teacher* (Sept.-)
 2014- Reviewer, *The American Biology Teacher*
 2014 Guest Scientist, MSU's Journalism 472/872-Science and Health Writing (13 students)
 2014 Reviewer, BEACON Proposals submitted to Thrust Group 1 (Genomes, Networks & Evolvability)
 2013- Contributing Blogger, Office of the Vice President for Research & Graduate Studies Blog
 2013 Contributing Blogger, Nature Afield: Notes on Biophilia
 2013 BEACON Technical Staff for Science Communication

- 2013 Reviewer, BEACON Proposals submitted to Thrust Group 3 (Ecological Communities & Collective Dynamics) and Education and Outreach calls
- 2009-2010 *The Tower*, Undergraduate Research Journal, Associate Editor of Submission & Review
- 2008-2010 Contributing writer/photographer, GT Honors Program Newsletter, "The HyPe"
- 2008-2009 *The Tower*, Undergraduate Research Journal, Student Reviewer and Copyeditor

Organization of Workshops, Conferences, and Symposia

- 2016 NSF-Sponsored Quantitative Bio Workshop at Spelman, Co-Organizer (Website)
- 2016 Spelman Research Day Moderator, Oral Presentations in Biology
- 2015 Oral Presentation Judge, Southeast Ecology and Evolution Conference (SEEC)
- 2015 Facilitator for Incorporating Research into the Curriculum, Life Discovery Conference
- 2014 Society for the Study of Evolution Workshop Assistant, "Experiencing Evolution: A Professional Development Workshop for Undergraduate Educators"
- 2014 Graduate School Invited Panelist, Midwest Ecology and Evolution Conference
- 2013 Society for the Study of Evolution Workshop Planning Committee, "Avoiding Extinction in the Classroom: A Professional Development Workshop for Undergraduate Educators"
- 2012 Planned Graduate Student/Post-Doc Activities for the 2012 NSF Site Visit to BEACON
- 2012 "Careers Outside of Academia" Panel Session Host
- 2012 Finalist for Student Keynote Speaker for the 2012 Women's Leadership Conference
- 2011 COGS Graduate Academic Conference Poster Session Judge
- 2010-2012 Alumni Advisor & Training Presenter for 2011-2012 DAAD Young Ambassador Program
- 2010 ACC Meeting of the Minds Undergraduate Research Conference, "Research Careers" Panel Session Moderator
- 2007 GT T-Square Web Portal Forum Panelist

Promoting Diversity and Undergraduate Science Education

- 2015 Guest Scientist, MSU ISB202: Applied Organismal and Environmental Biology
- 2015 Interviewed Scientist, University of New Hampshire Undergraduate Animal Behavior Course
- 2015 Entomology Session Volunteer, Brookwood High School Science Olympiad Invitational
- 2015 Digital Guest Scientist, McWane Science Center Biotechnology Camp at UAB
- 2014 Stickleback Lab Science Tour for Shabazz Elementary 3rd Graders
- 2014 Human Evolution Guest Scientist, Dewitt High School
- 2013 Evaluator, Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE), Agriculture & Animal Science Section
- 2013 GWIS Mentoring Program Mentor to Undergraduate Scientist Savannah Foster
- 2012 The Summer Undergraduate Research Forum (SURF) Judge and Room Moderator for Oral Presentations in Biological Sciences
- 2012-2014 Brookwood High School (Snellville, GA) Presentation on Studying Sexual Selection, "What Can You Do With A Degree in Biology?" Series
- 2011-2013 Graduate Student Facilitator at SROP Graduate School Networking Dinner
- 2012, 2013 Hosted "Graduate School Interviews" Workshop
- 2012 GWIS Pre-UURAF Undergrad Poster Review Coordinator
- 2012, 2014 Undergraduate Research and Arts Forum Undergrad Poster Judge

2011 Volunteer and Recruiter for Inaugural Graduate Ambassadors at the Spring University Undergraduate Research and Arts Forum (UURAF)
 2011 Hosted “Demystifying Grad School” Workshop
 2011 Hosted “Graduate School Personal Statements” Workshop
 2011 Zoology Graduate Affairs Committee Luncheon/Panel for Prospective Students
 2010- GWIS Undergraduate Mentoring Committee Member
 2010-2011 BEACON NCA&T Prospective Student Host
 2010 Hosted “CV/Resume Workshop for Undergraduates Applying to Grad School” Workshop
 2007 GT LAND@ GT (Georgia Tech’s Program for Incoming Exchange Students) Volunteer

Service Within the Broader Community

Grants and Awards for Community Service/Outreach

2014 Society for the Study of Evolution Outreach Grant, “Evolutionary Anthropology Activity: Examining Hominid Remains”. \$800.
 2012 MSU Green Games, \$750 Award for green initiatives on campus
 2011 MSU Green Games, \$1000 Award for green initiatives on campus
 2007-2010 GT Honors Program, \$2500 Student Challenge Fund Grant for Campus Bike Share

Advancing Public Awareness and Diversity in Science

2015 Georgia Tech International Plan Alumni Panel
 2015 Studying Evolution, Murphy Elementary Science Fair
 2013- 2015 Sciencepalooza! Science Fair Judge at MacDonald Middle School
 2013 Studying Evolution, Marble Elementary Science Night
 2013 Stickleback Lab Tour on Evolution, 3-6th year students at Stepping Stones Montessori
 2013 FabFems Role Model Directory of Women in Science
 2013-2016 Monthly Twitter Discussion Nights, #scistuchat, with Overton High School Biology (TN)
 2013 Grad School Panel Session for Honors Intro to Ecology
 2013 Computing and Evolution: Demos for 4th Graders at Marble Elementary School
 2011-2013 Volunteer (Write-It, Do-It & Experimental Design) for MI Science Olympiad
 2012 College Ambition Program (CAP) Panelist: College in the Sciences
 2012 Computing and Evolution: Demos for 6th Graders at Glencairn Elementary School
 2012 Mentor for Future Science Leaders Program for Daegu Science High School (Korea)
 2012 BEACON Presenter for Spartan International High School Engineering Program
 2012 Lab tour guide, Multicultural Apprenticeship & High School Honors Science Programs
 2012-13, ‘15 GWIS Girls Math and Science Day Volunteer
 2011 22nd Annual Lansing’s Girl’s Math and Science Conference Coordinator and IT Specialist
 2011 Presenter at Science Day at Plainwell Elementary School
 2007 Girl Scouts of America “CSI” Event Volunteer
 2007 RoboCup 2007 Event Volunteer and German Translator
 2007-2010 GT FUTURES Women’s Recruitment, Biology Representative
 2007-2010 Georgia Tech School of Biology Women’s Recruitment, Representative

Science Communication Through the MSU Museum (MSUM)

2013 Virtual Outreach Program Presenter, Senses of Adaptation
 2012-2013 Mutation Station (Genetics of Evolution) Exhibit Designer (Opened Oct. 2013)
 2012 Silent Spring Exhibit Contributor: Role of Women in Science (June-Dec. 2012)
 2011 Creation of the Rachel Carson MSUM and GWIS Partnership Award
 2011-2012 GWIS Darwin Discovery Day Presentation of a Timeline of Women in Science
 2011- Darwin Discovery Day, Planning Committee (-2013); Presenter (2011-)

Workshop Participation

Teaching

- 2016 Education Symposium: Making evolution work - Synthesizing research and applied practice to inform both fields
- 2016 Evo101 (Evolution Educator Workshop at Evolution 2016)
- 2016 Assessment (2-Day Symposium at Spelman College)
- 2016 National Center for Faculty Diversity and Development (NCFDD)
Academic Time Management
- 2016 CIRTl Preparing the College Students of Tomorrow in Biology
- 2015 Project-Based Learning
- 2015 Crawling Out of the Time Suck: Grading, Evaluation, and Feedback
- 2015 Teaching Research and Resources Center Metacognition Summer Workshop
- 2015 Inquiry-Based Learning
- 2014 Engaging a Diverse Student Body in STEM by Teaching Critical Thinking
- 2014 Twitter in the Classroom
- 2014 Assessment Leaders Colloquium (Invited)
- 2014 Leading discussions: strategies for engaging all participants
- 2014 ASSESS 101
- 2013-2014 The Future of Learning + Instructional Space Design Innovation (Invited)
- 2013 Electronic distractions in the classroom: managing & utilizing the instant connections to the world
- 2013 Next Generation Science Standards, presented by Dr. Stephen Pruitt
- 2013 Teaching and Technology: Speed Dating with Technology
- 2013 Teaching and Technology: Thinking About Teaching with Technology
- 2013 Teaching Pedagogy and Technology
- 2013 Resources for Persons with Disabilities
- 2012 Creating the Inclusive Classroom
- 2011, 2013 University Safe Zone Training (LGBTQA Inclusiveness)
- 2012, 2013 How People Learn: A Cognitive Science Perspective
- 2012 University Certification in College Teaching Institute
- 2011-2013 Question, Persuade, Refer (QPR) Suicide Prevention Training
- 2011 Teaching as Leadership
- 2010 Teaching Your First College Class: Developing Effective (& Life Long!) Teaching Strategies as a TA
- 2010 TA / Student Rights and Responsibilities
- 2010 Associate Provost and Graduate School Support
- 2010 Being a TA: TA Program & MSU Teaching Resources
- 2010 Effective Teaching: What is it? How Do You Do It? How Do You Know You've Done It?
- 2010 Catching Up / Looking Forward (Course Planning Seminar)
- 2010 The Doctors are In! – Successful TAs Talk About Teaching and Graduate Student Success
- 2010 Understanding Mood

Research

- 2016 CIRTL: Leveraging Authentic Teaching and Research Practices for Successful NSF and NIH Proposals
- 2016 The ABT Framework: A New Science Communication Tool, with Dr. Randy Olson
- 2015 Managing Your Digital Identity
- 2015 Animal Behavior Society (ABS) Temporal Variation in Behavior Workshop
- 2015 How to Successfully Manage Multiple Projects
- 2015 Healthy Productivity
- 2015 Science Communication (SEEC 2015)
- 2015 Thriving In Your First Year as Faculty: Women in STEM
- 2015 Thriving In Your First Year as Faculty: What to Expect and How to Prepare
- 2014 Thriving In Your First Year as Faculty: The Academic Job Search
- 2014 How to Use Social Media for Engaged Scholarship
- 2014 Financial Wellness: Negotiating your Job Offer
- 2014 Professional Image, Writing Productivity, Reviewing
- 2014 Writing Winning Grant Proposals
- 2014 Communication Skills for Women
- 2014 Goal Setting & Achieving Seminar
- 2014 Leading from the Inside Out: Discover and Understand the Power of Your Story
- 2013 MSU Leadership Institute (Giving Feedback & Forming Vision Statements)
- 2013 Interviewing and Negotiations
- 2013 Job Search: "Tap the 80%: How To Find the Jobs That Are NOT Advertised"
- 2013 Mentoring Matters
- 2013 StrengthsFinder
- 2013 Effective Networking
- 2013 Traditionalists, Boomers, X's and Y's...Oh My! Communicating and Collaborating in a Multigenerational Workplace
- 2013 Communicating STEM Effectively: It's All About Connecting!
- 2013 Creating Your Brand
- 2013 Negotiating Your Worth
- 2013 Marketing Yourself and Transferable Skills
- 2013 Corporate and Foundation Funding
- 2013 Securing Academic Positions
- 2013 Successful Productivity, Successful Living
- 2013 Planning for a Sustainable Career: From Graduate Student to Professional
- 2013, 2015 Writing Processes & Strategies for Academic Writing
- 2013, 2015 Managing Time and Academic Relationships
- 2013 Developing a Work-Life Balance for sustaining a productive career and your sanity
- 2013 Women's Issues in Conflict Management and Negotiation
- 2013 Post-Perfectionism Workshop
- 2013 EndNoteX6 tutorial
- 2013 NSF CIRTL Online Coffee Hour Series: Building an Academic Career-Alternative academic careers
- 2013 Doctoral Dissertation Improvement Grant Writing
- 2013 Fellowship and Career Opportunities

2012 Intellectual Property
 2012 Politics of Collaboration Networks
 2012 IPython: an open source environment for scientific computing
 2012 Career Path: Always Have an Objective, But be Open to Change
 2012 Project Management
 2011 Avoiding & Negotiating Conflict in Your Graduate Career
 2011 Personal Responsibility in Conducting Research and Career
 2011 Responsible Animal Research
 2011 Objectivity & Conflicting Interest in Academic Research
 2011 Setting Expectations
 2011 From Doctoral Student to Post-Doc
 2011 From Graduate Student to Professor: How to be Effective in the Academy
 2011 From CV to Resume Webinar
 2010 Developing Your Leadership Potential
 2010 Responsibility and Integrity in Career
 2010 Responsible Decision-Making in Academic Research: Ethical & Moral Perspectives

Mentoring

Research

2015- **Beanca Michel**, Spelman Undergraduate Research Assistant
 2015- **Kiera Brown**, Spelman Undergraduate Research Assistant
 2015- **Wangui Hymes**, Spelman Undergraduate Research Assistant & *Winner, 2016 CURE Summer Research Grant and 2015 Annual Bio Medical Medical Research Conference for Minority Students (ABRCMS) Best Oral Presentation*
 2015- **Sophie Breitbart**, Wesleyan University Mentee Matched via MentorNet
 2013-2014 **Ellyse Cipolla**, MSU Undergraduate and Post-baccalaureate Research Assistant
 2013-2014 **Marquita Tillotson**, MSU Undergraduate Research Assistant & *Winner, 2014 College of Natural Science Spring Undergraduate Research Scholarship*
 2013-2014 **Gavin Rienne**, MSU Undergraduate Research Assistant & *Winner, 2014 College of Natural Science Spring Undergraduate Research Scholarship and Best Poster Presentation, Undergraduate Research and Arts Forum 2014*
 2013-2014 **Savannah Foster**, MSU Undergraduate Research Assistant
 2012-2013 **Benjamin (Ben) Wurst**, High School Volunteer Assistant (now MSU Student)
 2012-2013 **Anna Reh-Gingerich**, MSU Undergraduate Research Assistant & *Winner, 2013 Midwest Ecology and Evolution Conference, Best Undergraduate Poster Award*
 Published her work (“How Environmental Fluctuations are Reflected in Three-Spined Stickleback Sexual Signals”) in the Red Cedar Undergraduate Research (ReCUR) Journal in December 2016
 2012 **Felicia Harmon**, MSU Undergraduate Research Assistant
 2010-2012 **Angela Marchand**, MSU Undergraduate Research Assistant

Teaching

- 2014 **Jay Bundy**, MSU Graduate Teaching Assistant for Evolutionary Biology for Non-Life Scientists (inter-institutional between MSU and U Idaho)
- 2013 **Michael Jaisle**, MSU Undergraduate Education Assistant (UEA) for Organisms and Populations Lab (2 sections)
- 2012 **Selena Warminski**, MSU UEA for Organisms and Populations Lab (2 sections)

Skills and Certifications

- Communication: Fluent in English (native) and German.
Spanish & French (Travel, Elementary Level).
Scientific and technical writing, translation, and proofreading (English/German)
Social Media Marketing (English)
American Council for the Teaching of Foreign Languages: German Teaching Certification (2009)
- Laboratory: Experienced with PCR and qPCR, Gel Electrophoresis, ABI, ALF, Tissue Digestion and DNA extraction, LightCycler and Nanodrop Spectrophotometer Use, Microscopy, Ethogram Development, Organism Culturing (Zebrafish, Rotifer, Algae, Stickleback), Crossing/Breeding, Elastomer Marking of Fish, Color and Behavior Scoring, Dose Response Testing, RNAi, *In situ* Hybridization, Radioactive Substance Use (sediment preparation and spiking), Identification of Developmental Deformities, and Data Analysis and Independent Experimental Design
- Computer: Experienced with Interactive Video Conferencing, Java, P-Basic, Python, R, Minitab, Adobe InDesign, Adobe Captivate, and HTML. Proficient in Server Administration (content management and scripting), Databases, Cloud Computing, Avida, Web Design, and Microsoft Office. Mac & PC.
- Safety: AED-CPR Certified (US) and trained for Radioactive Substance use (Germany)

Professional Memberships

Society of Systematic Biologists (2016-)
Society for Integrative and Comparative Biology (2015-)
American Association of University Women (2014-)
National Association of Biology Teachers (2014-)
Phi Kappa Phi (2013-)
American Society of Naturalists (2013-)
Society for the Study of Evolution (2011-)

Graduate Women in Science (2010-)
Golden Key International Honour Society (2008-)
Beta Beta Beta National Biology Honor Society (2007-)