

Christina L. Kwapich

CURRICULUM VITAE

PROFESSIONAL APPOINTMENTS

- 2023 - present **Assistant Professor**
Department of Biology
University of Central Florida
- 2020 – 2023 **Assistant Professor**
Department of Biological Sciences
University of Massachusetts Lowell
- 2015 – 2019 **Postdoctoral Fellow**
School of Life Sciences, Social Insect Research Group
Arizona State University
Research Advisor: Bert Hölldobler

EDUCATION

- 2008 – 14 **Ph.D., Ecology and Evolution**
Department of Biological Science
Florida State University
Research Advisor: Walter R. Tschinkel
- 2003 – 07 **B.S., Entomology**
Department of Entomology
The Ohio State University
Research Advisor: Susan C. Jones

TRAINING

- 2023 **RADcamp, Population Genomics Workshop**
Columbia University, New York, NY
- 2016 **Workshop on Architecture and Collective Behavior**
Tempe, AZ
- 2012 **Sable Systems, Respirometry Course**
Las Vegas, NV
- 2011– 2014 **Graduate Research Assistant** with Walter R. Tschinkel
Department of Biological Science, Florida State University
- 2010 - 2011 **National Science Foundation Integrated Training in Biology and Society
Graduate Fellow**, Department of Biological Science, Florida State University
- 2009 **Ant Course, California Academy of Sciences**
AMNH Southwestern Research Station, Portal, AZ

2008– 2010 **Teaching Assistant**, The Ohio State University, EEOB Dept.
Department of Biological Science, Florida State University

2002-2003 **Entomology Assistant**
Missouri Botanical Garden, Sophia M. Sachs Butterfly House

RESEARCH

PEER-REVIEWED PUBLICATIONS

‡corresponding author, *student/postdoc collaborator

1. Hölldobler B, **Kwapich CL** (2022). The Guests of Ants: How Myrmecophiles Interact with Their Hosts (Book). **Belknap Imprint of Harvard University Press**, Cambridge, MA. ISBN-13:9780674265516. (Original book, 576 pages)
2. Martyn*‡ TE, **Kwapich CL**, Kline A, Gornish E (2022). Ants prefer small and unprotected seeds: Implications for restoration in arid ecosystems. **Restoration Ecology**. e13759. <https://doi.org/10.1111/rec.13759>
3. Lundgren*‡ EJ, Moeller* K, Cline* M, Mahoney* SM, **Kwapich CL** (2022). Apache Cicada nymphs are a dominant food source for desert-dwelling black bears (*Ursus americanus*) along a Sonoran Desert river. **Ecology and Evolution**. e8577, DOI:10.1002/ece3.8577
4. **Kwapich‡ CL** (2021) Green Anole (*Anolis carolinensis*) eggs associated with nests of the trap jaw ant, *Odontomachus brunneus*. **Southeastern Naturalist**. 20(4):119-124, doi:10.32942/osf.io/jw7rn.
5. **Kwapich‡ CL**, Hölldobler B (2019). Destruction of spiderwebs and rescue of ensnared nestmates by the granivorous desert ant *Veromessor pergandei*. **The American Naturalist**.194(3):395-404. <https://doi.org/10.1086/704338>
6. Hölldobler‡ B, **Kwapich‡ CL** (2019). Behavior and exocrine glands in the myrmecophilous beetle *Dinarda dentata* (Gravenhorst, 1806) (Coleoptera: Staphylinidae: Aleocharinae). **PLoS ONE** 14(1): e0210524.
7. **Kwapich‡ CL**, Valentini* G, Hölldobler B (2018). Non-additive effects of body-size on nest architecture in a polymorphic ant species. **Philosophical Transactions of the Royal Society B**. 373:1753. doi: 10.1098/rstb.2017.0235
8. Hölldobler‡ B, **Kwapich‡ CL**, Haight K (2018). Behavior and exocrine glands of the myrmecophilous beetle *Lomechusoides strumosus* (Fabricius, 1775) (Formerly *Lomechusa strumosa*) (Coleoptera: Staphylinidae: Aleocharinae). **PLoS ONE**. 13(7): e0200309.
9. Hölldobler B‡, **Kwapich CL** (2017). *Amphotis marginata* (Coleoptera: Nitidulidae), a highwayman of the ant *Lasius fuliginosus*. **PLoS ONE** 12(8): e0180847. <https://doi.org/10.1371/journal.pone.0180847>

10. **Kwapich[‡] CL**, Gadau J, Hölldobler B (2017). The ecological and genetic basis of annual worker production in the desert seed harvesting ant *Veromessor pergandei*. ***Behavioral Ecology and Sociobiology***. 71: 110. <https://doi.org/10.1007/s00265-017-2333-1>
11. Tschinkel[‡] WR, **Kwapich CL** (2016). The Florida harvester ant, *Pogonomyrmex badius*, relies on germination to consume large seeds. ***PLoS ONE*** 11(11): e0166907. <https://doi.org/10.1371/journal.pone.0166907>
12. **Kwapich[‡] CL**, Tschinkel, WR (2016). Limited flexibility and unusual longevity shape forager allocation in the Florida harvester ant (*Pogonomyrmex badius*). **Invited** for special issue on integrative analysis of division of labor, ***Behavioral Ecology and Sociobiology***. 70(2): 221-235. <https://doi.org/10.1007/s00265-015-2039-1>
13. Tschinkel[‡] WR, Rink WJ, **Kwapich CL** (2015). Sequential subterranean transport of excavated sand and foraged seeds in nests of the harvester ant, *Pogonomyrmex badius*. ***PLoS ONE***. 10(10): doi.org/10.1371/journal.pone.0139922
14. Mason KS, **Kwapich CL**, Tschinkel WR[‡] (2015). Respiration, worker body size, tempo and activity in whole colonies of ants. ***Physiological Entomology***. 40: 149–165. [doi:10.1111/phen.1209](https://doi.org/10.1111/phen.1209)
15. **Kwapich[‡], CL** (2014). Adaptive labor allocation in the Florida harvester ant (*Pogonomyrmex badius*). **Doctoral dissertation**. Florida State University Digital Repository.
16. Gibson^{*‡} AH, **Kwapich CL**, Lang^{*} M (2013). The Roots of Multilevel Selection Theory: Concepts of Biological Individuality in the Early Twentieth Century. ***History and Philosophy of the Life Sciences***. 35(4): 505-532.
17. Rink[‡] WJ, Dunbar JS, Tschinkel WR, **Kwapich CL**, Repp A, Stanon W, Thulman DK (2013). Subterranean transport and deposition of quartz by ants in sandy sites relevant to age overestimation in optical luminescence dating. ***Journal of Archaeological Science***. 40(4): 2217-2226. <https://doi.org/10.1016/j.jas.2012.11.006>
18. **Kwapich[‡] CL**, Tschinkel WR (2013). Demography, demand, death and the seasonal allocation of labor in the Florida harvester ant (*Pogonomyrmex badius*). ***Behavioral Ecology and Sociobiology***. 67(12): 2011 – 2027. <https://doi.org/10.1007/s00265-013-1611-9>
19. Tschinkel[‡] WR, Murdock^{*} T, King JR, **Kwapich CL** (2012). Ant distribution in relation to ground water in north Florida pine flatwoods. ***Journal of Insect Science***. 12(1): 114. [doi:10.1673/031.012.11401](https://doi.org/10.1673/031.012.11401)

OTHER INDEXED PUBLICATIONS

20. **Kwapich CL** (2022). Do parasitic ant crickets (Myrmecophilidae) mimic ant gasters? ***Metaleptea***. 42(1) 27. **Conference Proceedings**
21. Gibson AH, Kwapich CL, Lang M. (2018) Chapter One, Multilevel Selection and the Theory of Evolution: Historical and Conceptual Issues. Edited by Ciprian Jeler. Palgrave Pivot Publishing, XI:1-151, ISBN 978-3-319-78676-6. **Book Chapter**

INVITED OPINIONS

Kwapich, CL (2021), Meet the New Subject Editors. *Myrmecological News Blog*, <https://blog.myrmecologicalnews.org/2021/02/18/meet-new-subject-editors-of-myrmecological-news/>

Kwapich, CL (2019). Ant colonies benefit when nestmates get tangled. *American Society of Naturalists Forthcoming Papers Blog*, <https://www.amnat.org/an/newpapers/Sep-Kwapich.html>

Kwapich CL (2018), How to dissect a superorganism. *Myrmecological News Blog*, <https://blog.myrmecologicalnews.org/2018/09/27/how-to-dissect-a-superorganism/>

Kwapich CL (2018), How ants stock their seed pantries. *AntWeb Ant Blog*, www.antweb.org/antblog/2012/12/when-do-harvester-ants-gather-food-before-winter-javier.html

FUNDING SOURCES

- 2023 **National Science Foundation Building Research Capacity of New Faculty in Biology (NSF BRC-BIO)**. “Social and ecological drivers of host breadth in parasitic ant crickets” PI: Christina Kwapich. DEB-2312731, **\$501,483***
(*Recommended for Funding, could not transfer from UML to UCF. Withdrawn.)
- 2022 University of Massachusetts Lowell **Faculty Peer Mentoring SEED Grant**, Co-PIs: Maru Cabrera, Christina Kwapich, Teresa Lee, Hilary Lustick, Rachel Melamed, Jane Sancinoto, Joy Winbourne, Wolkowicz, Kelilah
- 2022 International Union for the Study of Social Insects **Society Conference Funding Grant** on behalf of the IUSSI-NAS in my capacity as society President. Funding allowed 10 North American students to travel to the 2022 International Congress of the IUSSI
- 2021 University of Massachusetts Lowell **SEED grant**, “Nanopore sequencing to support faculty collaboration in genomics research and teaching at UMass Lowell.” Co-PIs Freddy Chain, Mathew Gage, Jessica Garb, Christina Kwapich
- 2018 **Western North American Naturalist (WNAN) Grant**, “Identity and function of black yeasts in the nest architecture of the velvety tree ants (*Liometopum*)” PI: Christina Kwapich, Co-PI: Jeffrey Sosa-Calvo
- 2017 ASU **Research Training Initiative Grant**, Fostering Postdoctoral Research in the Life Sciences, “Identity and function of black yeasts in the nest architecture of the velvety tree ants (*Liometopum*)” PI: Christina Kwapich, Co-PI: Jeffrey Sosa-Calvo
- 2013 **National Science Foundation Doctoral Dissertation Improvement Grant (NSF DDIG)** “Stable isotopes reveal the dietary basis of seasonal lifespan plasticity in the Florida harvester ant *Pogonomyrmex badius* (IOS-1311473)”
- 2010 **National Science Foundation Integrated Training in Biology & Society (NSF-ITBaS)** Graduate Fellowship, “Bridging the two cultures: History and philosophy of ecology and evolutionary biology (NSF-SES-0724686)” Faculty PIs: Fritz Davis, Tom Miller et al.,

- 2009 FSU Department of Biological Science, **Robert B. Short Scholarship in Zoology**
- 2004 **National Science Foundation Research Experience for Undergraduates (NSF REU)**
 “Natural history of *Leptothorax minutissimus*, a social parasite of the acorn ant, *L. curvispinosus* (NSF-IOS-0321898)” Faculty PI: Joan Herbers

ACADEMIC HONORS

- 2023 Association of American Publishers, **PROSE Award finalist** in Biological Sciences for *The Guests of Ants: How Myrmecophiles Interact with Their Hosts*
- 2023 Selected as Kennedy College of Science Annual Dean’s Lecture Speaker
- 2014 Inducted, Florida State University Society of Fellows
- 2010 FSU Outstanding Teaching Assistant Award Nominee
- 2010 First Place, Behavioral Ecology Section, Student Competition for the President’s Prize, National meeting of the Entomological Society of America, San Diego, CA

INVITED UNIVERSITY SEMINARS

1. **Christina Kwapich** (2023). Annual Dean’s Lecture: Empires in the Soil. Kennedy College Of Science, University of Massachusetts Lowell, Lowell, MA
2. **Christina Kwapich** (2023). Multiscale Science Conversation Starter: The emergence of colony-level traits. Kennedy College Of Science, University of Massachusetts Lowell, Lowell, MA
3. **Christina Kwapich** (2022). Ants as ecosystem engineers. Department of Wildlife, Fisheries and Conservation Biology at the University of Maine, Orono, ME
4. **Christina Kwapich** (2022), The economics of granivorous ant societies. Cambridge Entomological Club, Harvard University, Cambridge, MA
5. **Christina Kwapich** (2021). A tug-of-war between worker size and colony size in a desert seed harvesting ant, University of North Carolina, Pembroke, NC
6. **Christina Kwapich** (2021), Faculty Bio-Blast: The guests of ants. Department of Biological Sciences, University of Massachusetts Lowell, MA
7. **Christina Kwapich** (2018), The ecological consequences of social organization. Department of Biological Sciences, University of Massachusetts Lowell, MA
8. **Christina Kwapich** (2018), Causes and consequences of social organization in ants. University of Waikato, Hamilton, New Zealand
9. **Christina Kwapich** (2018), From polymorphism to landscape level-patterns of soil bioturbation. School of Natural Resources and Environment, University of Arizona, Tucson, AZ
10. **Christina Kwapich** (2018), Linking worker phenotypes to nest architecture, rescue behavior and parasite load in ant societies. Department of Entomology, The Ohio State University, Columbus, OH
11. **Christina Kwapich** (2014). Development, death, and division of labor in a seed harvesting ant. Social Insect Research Group, School of Life Sciences, Arizona State University Tempe, AZ

12. **Christina Kwapich** (2013). Seasonal labor allocation in the Florida Harvester Ant. Department of Biological Science, Florida State University, Tallahassee, FL

CONFERENCE PRESENTATIONS

13. **Christina Kwapich** (2022) Phenotypic plasticity in a myrmecophile with numerous ant hosts (Orthoptera: Myrmecophilidae). Symposium on the evolution of social insect symbionts. International Congress of Entomology, Helsinki, Finland. (invited symposium talk)
14. Katrin Kellner and **Christina Kwapich** (2022). Bacterial and fungal microbiomes of *Pogonomyrmex* ants and their seed deposits. Entomological Society of America Annual Conference, Vancouver, BC, Canada
15. **Christina Kwapich** (2022). Arrangement and function of resin and lichen caches in ant nests. Symposium on spatial behavior in social insects. International Congress of the International Union for the Study of Social Insects. San Diego, CA. (invited symposium talk)
16. Hoon Kang*, Roman Meneghini*, **Christina Kwapich**. (2022) Intrinsic and extrinsic sources of variation in the hidden nest architecture of the ant, *Pheidole pilifera*. Symposium on spatial structure and organization within social insect colonies. International Congress of the International Union for the Study of Social Insects. San Diego, CA. (invited symposium talk)
17. Roman Meneghini*, Hoon Kang*, **Christina Kwapich**. (2022) Are *Pheidole pilifera* majors winter seed-millers? Themed session on Evolutionary perspective on Social Insects. International Congress of the International Union for the Study of Social Insects. San Diego, CA.
18. Sydney Hy* and **Christina Kwapich**. (2022) Workerless queens and queenless workers: The behavior of the social parasite *Tetramorium atratum* with *Tetramorium immigrans* in its introduced range. Animal Behaviour Live: Annual Online Conference. Virtual (20 minutes)
19. **Christina Kwapich** (2021). Do parasitic ant crickets (Myrmecophilidae) mimic ant gasters? Symposium: Small orders, big ideas (Polyneoptera), Entomological Society of America Annual Meeting, Denver, CO (30-min key-note, invited talk)
20. **Christina Kwapich** (2020). The use of pine resin and lichen in subterranean ant nests. Entomological Society of America Annual Meeting (virtual talk)
21. Katrin Kellner, **Christina Kwapich**, (2020). Microbiomes of Harvester Ants - Do Ants use Biological Control to protect their Seed Deposits? Entomological Society of America Annual Meeting (virtual poster)
22. **Christina Kwapich** (2020). Profesora en la Mirmecología: Ibero-American Symposium on Myrmecology (virtual, 30-min invited talk)
23. **Christina Kwapich**, Garbiele Valentini, Bert Hölldobler (2018). The non-additive effects of body size on nest architecture in a polymorphic ant, *Veromessor pergandei*, symposium on social insect ecophysiology across scales, IUSSI International Congress, Guarujá, SP, Brazil. (invited symposium talk)
24. **Christina Kwapich**, Robert Johnson, Bert Hölldobler (2018). Ant colonies as islands: How host species traits alter size and life history in generalist ant crickets (Orthoptera: Myrmecophilidae) . Conference symposium on causes and consequences of ant body size, IUSSI International

Congress, Guarujá, SP, Brazil. (invited symposium talk)

25. **Christina Kwapich**, Bert Hölldobler (2017). Destruction of spider webs and rescue of ensnared nestmates by foragers of the desert seed harvesting ant *Veromessor pergandei*. Entomological Society of America Annual Meeting, Denver, CO (talk)
26. **Christina Kwapich**, Jürgen Gadau, Bert Hölldobler (2016). Ecological and genetic basis of annual worker production in *Veromessor pergandei*. International Congress of Entomology, Orlando, FL (talk)
27. **Christina Kwapich**, Walter Tschinkel, Jack Rink (2016). Sequential caching of sand and seeds in nests of the Florida harvester ant. International of Congress of Entomology, Orlando, FL (talk)
28. **Christina Kwapich** and Bert Hölldobler (2015). Behavioral interactions of the harvester ant *Veromessor pergandei* & three nest-associated spiders. Entomological Society of America Annual Meeting, Minneapolis, MN (talk)
29. **Christina Kwapich** (2015). Aging in a seed harvesting ant: Demography, diet, infection and the annual cycle. Complex Biological Systems that Link Disease, Parasites, and Nutrient Ecology, Conference on Complex Systems, Tempe, AZ (invited talk)
30. **Christina Kwapich** (2015). A life table approach to modeling annual worker production in the FL harvester ant. Entomological Society of America Annual Meeting, Portland, OR (talk)
31. **Christina Kwapich** (2014). Neighbor removal increases forager longevity, slows progression through temporal castes (*P. badius*). Symposium on integrated analyses of division of labor, International Congress IUSI, Cairns, Australia (invited symposium talk)
32. **Christina Kwapich**, Walter Tschinkel (2013). Meddling neighbors induce an untimely end for foragers of the Florida harvester ant, *Pogonomyrmex badius*. Entomological Society of America Annual Meeting, Austin, TX (talk)
33. **Christina Kwapich** (2013). How to assemble a *Pogonomyrmex badius* colony from the bottom up, cookie shovel and wire required. Natural History as Insight and Inspiration Symposium, Tallahassee, FL (invited talk)
34. **Christina Kwapich**, Walter R. Tschinkel (2012). The Influence of Demand, Demography and Death on Labor Economics in the Florida Harvester Ant (*Pogonomyrmex badius*). International Union for the Study of Social Insects North American Section Meeting, Greensboro, NC. (talk)
35. **Christina Kwapich**, Walter R. Tschinkel (2011). Seasonal worker demography shapes colony-level labor allocation in the Florida harvester ant (*Pogonomyrmex badius*). Symposium on insect demography, emerging concepts and applications. Entomological Society of America Annual Meeting, Reno, NV (invited talk)
36. **Christina Kwapich**, Walter R. Tschinkel (2010). Annual patterns of forager allocation in the FL harvester ant (*Pogonomyrmex badius*). Entomological Society of America Annual Meeting, Student Competition for the President's Prize, San Diego, CA ***Awarded first prize for best student talk**
37. **Christina Kwapich**, Walter Tschinkel (2009). The organization and allocation of foragers in the Florida harvester ant (*Pogonomyrmex badius*). Entomological Society of America Annual Meeting, Indianapolis, IN (talk)
38. **Christina Kwapich**, Susan C. Jones (2006). Termite (Isoptera) Caste differentiation in response to

spatial separation from the reproductive female. Denman Undergraduate Research Forum, Columbus, OH (poster)

39. **Christina Kwapich**, Susan C. Jones, Nicola T. Gallagher (2006). Spatial dynamics of neotenic of *Reticulitermes flavipes* (Isoptera: Rhinotermitidae): male preference and ideal females. Entomological Society of America Annual Mtg., Indianapolis, IN (poster)
40. Joan M. Herbers, **Christina Kwapich** (2004). Dysfunctional families in the insect world. Coalition for National Science Funding, Washington DC (poster)

TEACHING AND MENTORING

INSTRUCTOR/ COURSES DESIGNED

- 2023 **Behavioral Ecology** (BIOL.4360), University of Massachusetts Lowell
- 2023 **Graduate Behavioral Ecology** (BIOL.5360), University of Massachusetts Lowell
- 2022 **Senior Seminar: Major Evolutionary Transitions** (BIOL.4510), UMass Lowell
- 2022 **Behavioral Ecology** (BIOL.4360), University of Massachusetts Lowell
- 2022 **Graduate Behavioral Ecology** (BIOL.5360), University of Massachusetts Lowell
- 2021 **Entomology** (BIOL.4550), University of Massachusetts Lowell
- 2021 **Graduate Entomology** (BIOL.5550), University of Massachusetts Lowell
- 2021 **Entomology Laboratory** (BIOL.4550L) University of Massachusetts Lowell
- 2021 **Graduate Entomology Laboratory** (BIOL.5550L) Uni. of Massachusetts Lowell
- 2021 **Behavioral Ecology** (BIOL.5360), University of Massachusetts Lowell
- 2021 **Graduate Behavioral Ecology** (BIOL.5360), University of Massachusetts Lowell
- 2020 **Senior Seminar** (BIOL.4510), UMass Lowell
- 2018 **Ants of the Southwest Course** (10-day field course), American Museum of Natural History, Southwestern Research Station, Portal, Arizona (co-instructor)

TEACHING ASSISTANTSHIPS

- 2010 Graduate Teaching Assistant, **Experimental Biology**, Florida State University
- 2010 Graduate Teaching Assistant, **Animal Behavior**, Florida State University
- 2009 Graduate Teaching Assistant, **Insect Biology**, Florida State University
- 2009 Graduate Teaching Assistant, **Animal Behavior**, Florida State University
- 2008 Graduate Teaching Assistant, **Experimental Biology**, Florida State University
- 2008 Undergraduate Teaching Assistant, **Biology 101 for Non-Majors**, The Ohio State University

GUEST LECTURES

- 2021 **Freshman Seminar**, Department of Biological Sciences, UMass Lowell
- 2020 **Freshman Seminar**, Department of Biological Sciences, UMass Lowell
- 2019 **Entomology**, School of Life Sciences, Arizona State University
- 2018 **Urban Entomology**, Department of Entomology, The Ohio State University
- 2017 **Bio-inspired design**, Biomimicry Innovation Space, School of Design, Arizona State U.
- 2014 **Ecology Lab**, Department of Biological Science, Florida State University
- 2014 **Social Insect Biology**, Osher Lifelong Learning Institute, Florida State
- 2013 **Animal Behavior**, Department of Biological Science, Florida State University
- 2012 **Florida Geology and Natural History**, Tallahassee Community College
- 2011 **Environmental Science**, Department of EOA Science, Florida State University
- 2010 **Animal Behavior**, Department of Biological Science, Florida State University
- 2010 **Insect Biology**, Department of Biological Science, Florida State University
- 2009 **Insect Biology**, Department of Biological Science, Florida State University

STUDENT RESEARCH MENTORING

MS Project

2022 – 23

Roman Meneghini (UMass Biological Sciences)

MS Project: Seed storage and processing in the granivorous ant, *Pheidole pilifera*

MS Project

2020 – 23

Byoungsoon Kang (UMass Biological Sciences)

MS Project: Adaptive nest architecture in soil nesting ants

***2023, UML Student Research and Engagement Symposium, finalist**

MS Project

2022

Sydney Hy (UMass Biological Sciences)

MS Project: Urban biodiversity: Parasites of the pavement ant, *Tetramorium immigrans* in its introduced range.

MS Project Student

2021-22

Jennifer Ingraham (UMass Biological Sciences)

MS Project: Tactile mimicry in the parasitic ant cricket, *Myrmecophilus pergandei*

Honors Thesis Student

2021 – 2022

Roman Meneghini (UMass Biological Sciences)

Thesis Project: Function of major workers in seed processing and fat storage during overwintering in the ant *Pheidole pilifera*

Senior Research Student

2022-23 **Gabriel Muniz** (UMass Biological Sciences)
Function of morphological mimicry in subterranean spider parasites
(*Phruronellus spp.*) of the ant genus *Crematogaster*
***2022 UML Biology Undergraduate Student Research Award Winner**

Senior Research Student

2022 **Kelsie Belanger** (UMass Biological Sciences)
Island syndrome and life history traits of myrmecophiles with limited
dispersal ability

Additional Undergraduates Mentored and Co-Mentored

2019 Connor Mcleod, ASU School of Life Sciences
2019 Melissa Griffin, ASU School of Life Sciences
2019 Chris Schwartze, ASU School of Life Sciences
2017-18 Yocha DeChavez, SOLUR, ASU School of Life Sciences
2015 Brian Pickens, ASU School of Life Sciences
2014 Nicole Ramirez, Women in Math Science and Engineering
program (WIMSE), FSU Biological Science
2014 Brooke Gosfield, Women in Math Science and Engineering
program (WIMSE), FSU Biological Science

Highschool Research Students Co-Mentored

2012 Nichole Cohen, Florida Young Scholars Program
2012 Kelsie Rice, Florida Young Scholars Program

THESIS/DISSERTATION COMMITTEES (where I am not the major professor)

1. **PhD Committee member** for Yonas Roba (2023-present), feeding behaviors (kinematics/biomechanics) of lungfish and salamanders. PhD advisor: Nicolai Konow UMass Lowell
2. **PhD Committee member** for Steven Casey (2023-present), evolution and spider silk proteins. PhD advisor: Jessica Garb UMass Lowell
3. **MS Committee member** for David Blumsack (2022-present), Silk and venom transcriptomics of ant-slaying spiders (*Euryopis*). MS thesis advisor: Jessica Garb, UMass Lowell
4. **Honors Committee member** for Karen Ghobrial (2021-present), "nteraction of phoretic mites with ant-slaying spider, Honors thesis advisor: Jessica Garb, UMass Lowell
5. **Honors Committee member:** Nisha Chayan (2021-present), Using molecular methods

to characterize mites on ant-slaying spiders. Honors thesis advisor: Jessica Garb, UMass Lowell

6. **MS Committee member:** Adam Johnson, MS thesis (2017-218). "Microsatellites reveal mating frequency in South American *Pogonomyrmex* harvester ants," MS thesis advisor: Jürgen Gadau, Arizona State University

SERVICE

PROFESSIONAL SERVICE

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| 2023 | Outgoing Society President , North American Section of the International Union for the Study of Social Insects (IUSI-NAS) |
| 2022 | Society President (elected), North American Section of the International Union for the Study of Social Insects (IUSI-NAS) |
| 2021 | President Elect , North American Section of the International Union for the Study of Social Insects (IUSI-NAS) |
| 2021-present | Subject Editor for the journal <i>Myrmecological News</i> (Impact Factor, 2.6) |
| 2021, 22 | Judge , student talks, Entomological Society America Annual Meeting |
| 2021 | Ad hoc reviewer for one NSF-IOS grant proposal |
| 2021 | Ad hoc reviewer for one USDA-NIFA grant proposal |
| 2019 | Awards Committee Co-Chair , International Union for the Study of Social Insects (IUSI-NAS), ~ 45 student proposals a year |
| 2017-19 | Awards Committee Member (elected), International Union for the Study of Social Insects (IUSI-NAS), ~ 45 student proposals a year |
| 2014,15 | Session Moderator , Behavior and Ecology, Entomological Society of America Annual Meeting |

Panels and Events

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| 2022 | Host and organizer of International Union for the Study of Social Insects North American Section Business Meeting (IUSI Congress in San Diego, CA) |
| 2022 | Host and organizer of International Union for the Study of Social Insects North American Section Business Meeting (EntSoc meeting in Vancouver, Canada) |
| 2021 | "Getting the job" alumni panelist , organized for postdocs at Arizona State University entering the academic job marker (36 attendees) |
| 2021 | "Getting a postdoc" alumni panelist , organized for graduate students from Arizona State University seeking postdoc positions (91 attendees) |
| 2020 -21 | Presenter , UML open houses, Spring into Science events, lab tours |
| 2018 -21 | Panelist , ASU School of Life Sciences graduate and postdoc retreats/panels |
| 2015-16 | Presenter , Arizona State University Night of the Open Door, Social Insects of Arizona |

2015

Conference Co-organizer, ASU/Würzburg Social Insect Research
International Conference (45 posters & talks)

Journal peer reviews

Nature

The American Naturalist

The Journal of Experimental Biology

Arthropod Structure and Function

Animal Behaviour

Behavioral Ecology and Sociobiology

Ecological Entomology

Israeli Journal of Entomology

BMC Evolution

Insectes Sociaux

Ecological Entomology

Journal of Economic Entomology

Annals of the Entomol. Society of America

Evolution Letters

Ecology and Evolution

PALAIOS

Revista Brasileira de Entomologia

Royal Society Open Science

Restoration Ecology

PLoS ONE

Myrmecological News

Functional Ecology

UNIVERSITY SERVICE

- 2020 – 23 Undergraduate course advising, course selection and degree pathway design for 20-26 undergraduate students per semester, UML
- 2020 – 23 Graduate Program Committee Member (GPEC), Biological Sciences, UML
- 2020 – 23 Department Website and Building Committee, Biological Sciences, UML
- 2020 – 23 Ecology, Evolution and Organismal Biology Undergrad Pathway working group, Biological Sciences, UML
- 2020 – 23 Department/college open house events, recruitment events, graduation ceremonies departmental colloquium host (6 guest speakers), homecoming, UML
- 2022 Building Construction Liaison between renovation contractors and faculty, UML
- 2022 Riverhawk Scholars Academy, career trajectory video series for first generation college students, UML
- 2021 Riverhawk Scholars Academy, women in STEM Film
Panel: *Picture a Scientist*, UML
- 2020 NSF WAVES, Women Faculty in STEM focus group, UML

PUBLIC OUTREACH

- 2023 **Public Lecture**, Athol Bird and Nature Club, “*The Guests of Ants*,” Athol, MA
- 2023 **Panelist**, Lowell Parks and Conservation Trust, Women Scientists working in the Merrimack Watershed, Lowell, MA
- 2022 **Insect collection open house**, Lowell, MA
- 2022 **Natural history hike leader**, Lowell Parks and Conservation Trust, Lowell, MA
- 2021 **Natural history hike leader**, UML undergraduate Biology Club, Groton, MA
- 2021,22 **Lowell/Haverhill High School lab visit**, 28 students, UML campus, Lowell, MA

- 2019 **EEB Mentor Match Program**, proofreading application materials for graduate school, and proposals for applicants of the NSF GRFP.
- 2018 **Guest educator**, *Ants and Grasshoppers*, New Vistas Center for Education, Phoenix, AZ
- 2016 **Science panelist**, Phoenix, AZ ComiCon, “*Adventures and Disasters in Science!*”
- 2016 **Public lecture**, Society for Conservation Biology, “*Ant colonies as ecosystems*,” Tempe, AZ
- 2013 **Exhibit co-organizer**, Scientific Illustration Exhibit: *Systems of the soil*
- 2013,14 **Webmaster**, Friends of the Apalachicola National Forest, Tallahassee, FL
- 2012,13 **Public lecture**, Waterworks Tallahassee Science Salon, Tallahassee, FL
- 2013 **Public lecture**, McClay High School, Tallahassee, FL
- 2012 **Public lecture**, E.O. Wilson Biophilia Center, Freeport, FL
- 2010 -14 **Guest Educator**, B. L. Perry Jr. Branch Library, children’s science camp, Tallahassee, FL
- 2009 -14 **Judge**, Capital Regional Science and Engineering Fair (Grades 6 -12), Tallahassee, FL
- 2007 **Science Olympiad Coach**, Entomology section (Grades 6-8). Fr. Co., OH
- 2003- 05 **Insectary volunteer**, insect care technician, Ohio State University

PROFESSIONAL MEMBERSHIPS

- International Union for the Study of Social Insects, North American Section
- The Entomological Society of America
- Animal Behavior Society
- American Arachnological Society
- Cambridge Entomological Club

CONSULTING WORK

- 2016 **Entomological Consultant**, Roni Horn art exhibit, Glenstone Museum of Contemporary Art, on site: Baltimore, MD
- 2016 **Entomologist**, Madrean Discovery Expedition, GreaterGood.org Cananea Copper Mine, Sierra Elenita, Sonora, Mexico
- 2011 **Manuscript Fact Checker**, Marshall Cavendish Benchmark Publishers
- 2010 **Entomological Consultant**, Roni Horn art exhibit, Whitney Museum of Modern Art, on site: New York, NY

MEDIA

APPEARANCES AND INTERVIEWS

1. “Biology Professor’s Book on Ant Colony Invaders Named PROSE Award Finalist” (2023) *UML News*, by Brook Coupal: <https://www.uml.edu/news/stories/2023/kwapich-guests-of-ants.aspx>
2. “The Guests of Ants' by Bert Hoelldobler and Christina Kwapich was nominated for excellence in biological, life sciences” (2023), *ASU News*, by Anaissa Ruiz-Tejada: <https://news.asu.edu/20230316-asu-regents-professors-book-named-finalist-2023-prose-awards>
3. “With a gift of 15,000 insects, UMass Lowell professor is in entomology heaven.” (2022) *The Boston Globe* newspaper, interview by John Laidler
4. “Interview of Christina Kwapich.” *Myrmecological News Blog*, interview by Hoon Kang <https://blog.myrmecologicalnews.org/2022/11/16/interview-with-christina-kwapich/>
5. *Myrmecophiles* (2022), *Peculiar Planet: The Podcast*, interview by Leigh Howarth
6. Get ready for Brood XIV (2021), *Marblehead Reporter* newspaper, interview by Wendall Waters
7. Ants, Tales from the underground (2019), *Science VS Podcast*, by Gimlet Media.
8. Episode 5 (2016). *Nature Nurture Podcast*, interview by Hongmei Li-Byarlay
9. Ant Course Presents: Mark-Recapture Technique (2015), filmed at the Southwestern Research Station, featuring Christina Kwapich and Walter Tschinkel, by Adrian A. Smith
10. Secrets of the Longleaf Pine Forest documentary (2005), PBS, appearance in *Pogonomyrmex badius* featurette
11. Dirty Secrets: Hidden systems of the soil exposed, featured artist in scientific illustration exhibit, Renditions Art Gallery and The Tallahassee Museum (2013)
12. Deadly 60 BBC, Season 3, Episode 19, Florida, appearance in ant featurette

POPULAR PRESS COVERAGE (SELECTED)

1. Parker, J (2023) Book Review: The Bank Most Tangled. *Current Biology* 32 (24). <https://doi.org/10.1016/j.cub.2022.10.023>
2. Nelson, A (2023): The Guests of Ants: How Myrmecophiles Interact with Their Hosts. *The Quarterly Review of Biology*. <https://doi.org/10.1086/726495>
3. Longino, JT (2023) Book Review: Strangers among us. *American Scientist*. 11(2). <https://www.americanscientist.org/article/strangers-among-us>
4. Parmentier, T (2023) Book Review: The Guests of Ants: How Myrmecophiles Interact with Their Hosts *American Entomologist*. 69 (1) <https://academic.oup.com/ae/article/69/1/52/7076288?searchresult=1>
5. Robinson, A (2022) Orphan drugs, and the science of 007: Books in brief Andrew Robinson reviews five of the best science picks. *Nature* 612 (26). <https://www.nature.com/articles/d41586-022-04131-3> (Coverage of *The Guests of Ants*)

6. Lee, G (2022). Ants are under attack from outsiders. **New Scientist**. <https://www.newscientist.com/article/mg25533992-600-ants-are-under-attack-from-outsiders-in-these-intimate-photos/> (coverage of *The Guests of Ants*)
7. Vleiger, L (2022) Book Review: The Guests of Ants: How Myrmecophiles Interact with Their Hosts, **The Inquisitive Biologist**. <https://inquisitivebiologist.com/2022/12/19/book-review-the-guests-of-ants-how-myrmecophiles-interact-with-their-hosts/> and Top Five Reads of 2022: <https://inquisitivebiologist.com/2022/12/31/year-list-the-inquisitive-biologists-top-5-reads-of-2022/>
8. von Beeren, C (2022). Book review: "The guests of ants: How myrmecophiles interact with their hosts," **Myrmecological News Blog**. <https://blog.myrmecologicalnews.org/2022/09/07/book-review-the-guests-of-ants-how-myrmecophiles-interact-with-their-hosts/>
9. The Guests of Ants: How Myrmecophiles Interact with Their Hosts, By Hölldobler B, and Kwapich CL. **Editorial Reviews**: <https://www.hup.harvard.edu/catalog.php?isbn=9780674265516&content=reviews>
10. Rescue Ants Save the Day for Comrades Tangled in Silk (2019). **Nature**. 569, 603 <https://www.nature.com/articles/d41586-019-01601-z> (coverage of *Amer. Nat.*, 2019)
11. Buehler, J (2019). Watch an ant rip apart a spider web: Desert harvester ants charge into danger and dismantle spider traps. **Science**. <https://www.science.org/content/article/watch-ant-rip-apart-spiderweb-rescue-sibling> (coverage of *American Naturalist*, 2019)
12. Seckel S (Jul 2018), Building a better ant castle. **ASU Now**, <https://asunow.asu.edu/20180725-discoveries-building-better-castle-asu-ant-study> (coverage of *Philosophical Transactions of the Royal Society B.*, 2018)
13. Bates, M (Sept 2017), Highwayman beetles rob ants of the food in their stomachs. **New Scientist**, <https://www.newscientist.com/article/2146057-highwaymen-beetles-rob-ants-of-the-food-in-their-stomachs/> (coverage of *PLoS ONE*, 2017)
14. Seckel, S (Aug 2017), "The dangerous game of the highwayman beetle. **ASU Now**, https://asunow.asu.edu/20170818-discoveries-asu-researchers-beetles-deceives-ants?utm_campaign=SFMC_Now+8-21-17_ASU+Now&utm_medium=email (coverage of *PLoS ONE*, 2017)
15. Frost, N (Aug 2017), The Beetle That Goes Undercover to Steal from Foraging Ants: The high-risk, high-return antics of the parasitic highwayman beetle. **Atlas Obscura**, <http://www.atlasobscura.com/articles/highwayman-beetle-ant-colonies-attack-parasite> (coverage of *PLoS ONE*, 2017)
16. Seckel S (Jul 2017), Digging into the harsh world of ants. ASU Now, https://asunow.asu.edu/20170720-discoveries-asu-researcher-ants-brutal-life?utm_campaign=SFMC_Now+7-21-17_ASU+Now&utm_medium=email (coverage of *Behavioral Ecology and Sociobiology*, 2017)
17. Simičević V (2016), Harvester ants farm by planting seeds to eat once they germinate. **New Scientist**, <https://www.newscientist.com/article/2117953-harvester-ants-farm-by-planting-seeds-to-eat-once-they-germinate/> (coverage of *PLoS ONE*, 2016)

