

CURRICULUM VITAE

Carla Eva Cáceres
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Education

1997	Ph.D. in Ecology and Evolutionary Biology	Cornell University
1991	BS in Biology, with High Honors	The University of Michigan

Additional Training

2016-2019	HHMI/NSF Mobile Summer Institute Facilitator
2010	Short Course in Environmental Genomics, Mount Desert Island Biological Laboratory
2009	The National Academies/HHMI Summer Institute on Undergraduate Education in Biology

Professional Positions

2017	Interim Associate Dean for Life and Physical Sciences, College of Liberal Arts and Sciences, UIUC (January – August)
2014 –	Director, School of Integrative Biology, UIUC
2013 – 2014	Interim Director, School of Integrative Biology, UIUC
2012 –	Professor, Department of Evolution, Ecology and Behavior, UIUC
2009 – 2013	Director, Program in Ecology, Evolution and Conservation Biology, UIUC
2006 – 2012	Associate Professor, Department of Animal Biology (now EEB), UIUC
2001 – 2006	Assistant Professor, Department of Animal Biology (now EEB), UIUC
1997 – 2001	Adjunct Assistant Professor, Department of Ecology, Ethology and Evolution (now Department of Evolution, Ecology and Behavior), UIUC
1996 – 2001	Assistant Professional Scientist, Illinois Natural History Survey

Current Adjunct / Affiliate Positions

2017 –	Prairie Research Institute, Affiliate
2017 –	Carl R. Woese Institute for Genomic Biology, Member of the Infection Genomics for One Health Theme
2015 –	Institute for Sustainability, Energy and Environment, Member of the Stormwater and Mosquito Control Project
2014 –	Department of Entomology, UIUC
2002 –	Kellogg Biological Station, Michigan State University

Grants*Current grants*

- 2018-2021 National Science Foundation. DEB - 1754115 Community Assembly Across Scales of Ecological Organization. Role PI, with Co-PIs Brian Allan, Allison Hansen, Juma Muturi and Zoi Rapti. (\$800,000)
- 2018-2021 National Science Foundation. DMS – 1815764. Modeling Multi-Host Multi-Pathogen Infectious Diseases. Role Co-PI, with PI Z. Rapti. (\$209,894)
- 2017-2020 National Science Foundation. DEB - 1655665 How do predators spread disease? Tests of five ecological and eco-evolutionary mechanisms with disease in the plankton. Role UIUC PI. Collaborative research with Spencer Hall (Indiana University) and Meghan Duffy (University of Michigan). (\$400,000 to UIUC)
- 2017-2020 National Science Foundation. Dissertation Research: Ecologically variable immunity and its consequences for parasite dynamics. Role PI for Ph.D. student Tara Stewart (\$20,539)

Prior Funding

- 2014-2018 National Science Foundation. Friendly competition – infusing ecology and evolution at the frontiers of the dilution effect in disease ecology. Role UIUC PI, (with Zoi Rapti, co-PI). Collaborative research with Spencer Hall (Indiana University – Lead institution) and Meghan Duffy (University of Michigan). Total to UIUC \$355,559 (includes 1 REU supplement + 1 ROA supplement)
- 2011-2016 National Science Foundation. UBM Group: Biomathematics Research and Training for Undergraduates at the University of Illinois Urbana-Champaign. PI-Z. Rapti, Co-PIs: C.E. Cáceres, R.E. DeVille, M. Kantorovitz, \$239,520
- 2011-2018 National Science Foundation. IGERT: Vertically Integrated Training with Genomics. PI – A.V. Suarez, Co-PIs: C.E. Cáceres, W.O. McMillan, G.E. Robinson, S. Rodriguez-Zas. \$3,198,462.
- 2011-2015 National Science Foundation. Testing mechanistic connections between sex, foraging and parasitism along an ecological gradient. Collaborative Research with Spencer Hall (Indiana University). \$543,158 to UIUC (includes 2 REU supplements).
- 2009-2012 National Science Foundation. EAGER Eco-evolutionary feedback on community assembly. Collaborative research with K.L. Schulz (SUNY –ESF). \$170,908 to UIUC.
- 2007-2010 National Science Foundation. Doctoral Dissertation Improvement Grant for Sigrid D.P. Smith. Existence and controls of alternative stable states in pond producer communities \$11,550
- 2006-2010 National Science Foundation. Community ecology of disease: control of epidemics by species interactions. Collaborative research with S.R. Hall (Indiana University). Total award amount: \$139,225 (includes 3 REU supplements)
- 2003-2009 National Science Foundation PECASE/CAREER Award. Exploring population persistence and community assembly through “resurrection ecology”. Total award amount: \$518,800 (includes 3 REU supplements).
- 2003-2008 National Science Foundation FIBR. Causes and consequences of recombination. PI- M. Lynch (Indiana University), with 4 Co-PIs (Cáceres, Housworth, Lively, Zolan) Total award amount \$5,000,627

- 2003-2007 National Science Foundation. Physical limnology for the parasite ecologist. Collaborative Research with A.J. Tessier (Kellogg Biological Station) and S. MacIntyre (UCSB). \$285,065 to UIUC.
- 2002-2004 National Sea Grant College Program. Aquatic Nuisance Species: Effects of invasive invertebrate predators on the food webs of the Great Lakes. Co-PI with K.L. Schulz (SUNY-Environmental Science and Forestry) and J.M. Dettmers (Illinois Natural History Survey) \$ 274,431
- 1999-2003 National Science Foundation. Diapausing eggs and the dynamics of plankton communities. \$237,765 to UIUC (includes 2 REU supplements). Collaborative Research with A. J. Tessier (Kellogg Biological Station, MSU)

Grants from UIUC

- 2016-2017 **BiR**irmingham-**I**llinois Partnership for **D**iscovery, **E**n**G**agement, and **E**ducation (Bridge). The biology of suspended animation. Birmingham PI – Luisa Orsini, UIUC PI- Carla Cáceres. \$6,000 to UIUC + £15,000 to Birmingham
- 2015-2019 University of Illinois Institute for Sustainability, Energy and Environment. Engineering the Microbial and Stormwater Environment for Mosquito Control. Role: Co-PI. PI – Brian Allan. Additional co-PIs: A. Hansen, E.J. Muturi, M. O’Hara, A. Schmidt, S. Wang, D. Wildman \$350,000
- 2013-2014 University of Illinois Graduate College Focal Point. Interdisciplinary training in hydrology, vectors and infectious diseases. Role: Co-organizer with M. O’Hara. Additional Collaborators: B. Allan, J. Brawn, P. Kumar, E.J. Muturi, and Z. Rapti. \$15,000
- 2012-2013 University of Illinois Provost’s Initiative on Teaching Advancement (PITA). Guided Inquiry Exercises to Enhance Student Engagement and Learning in Introductory Biology (IB150). Role: Co-PI. PI- J. Marcot, Co-PI T. Hickox \$6,000
- 2003-2004 University of Illinois Campus Research Board. Functional genomics of inbreeding depression. Role: Co-PI with K. Hughes, K. Paige, and G. Whitt \$15,000
- 1998-1999 University of Illinois Campus Research Board. Species composition of the Lake Michigan egg bank \$14,068

Publications (asterisks indicate *undergraduate or ** UIUC graduate student co-authors)

Google Scholar Site: <https://scholar.google.com/citations?user=HC3DHUgAAAAJ&hl=en>

- (77) Rapti, Z., T.E. Stewart Merrill, B. Mueller – Brennan, J.H. Kavouras, and **C.E. Cáceres**. 2019. Indirect effects in a planktonic disease system. *Theoretical Population Biology*. <https://doi.org/10.1016/j.tpb.2019.07.009>
- (76) Shocket, M.S., A. Magnante, M.A. Duffy, **C.E. Cáceres**, S.R. Hall. 2019. Can hot temperatures limit disease transmission? A test of mechanisms in a zooplankton-fungus system. *Functional Ecology*. In press
- (75) Stewart Merrill, T.E.**, S.R. Hall, L. Merrill and **C.E. Cáceres**. 2019. Variation in immune defense shapes disease outcomes in laboratory and wild *Daphnia*. *Integrative and Comparative Biology*. <https://doi.org/10.1093/icb/icz079>

- (74) Holmes, C.J.** and **C.E. Cáceres**. 2019 Biotic factors differentially structure immature mosquito assemblages in human-created stormwater ponds. *Ecological Entomology*. DOI: 10.1111/een.12783
- (73) Stewart Merrill, T.E.** and **C.E. Cáceres**. 2018. Within-host complexity of a plankton-parasite interaction. *Ecology* 99:2864-2867 (*cover article*)
- (72) Shocket, M.S., D. Vergara, A.J. Sickbert, J.M. Walsman, A.T. Strauss, J.L. Hite, M.A. Duffy, **C.E. Cáceres**, and S.R. Hall. 2018. Parasite rearing and infection temperatures jointly influence disease transmission and shape seasonality of epidemics. *Ecology* 99:2864-2867.
- (71) Shocket, M.S. A.T. Strauss, J.L. Hite, M. Šljivar, D.J. Civitello, M.A. Duffy, **C.E. Cáceres**, and S.R. Hall. 2018. Temperature drives epidemics in a zooplankton-fungus disease system: a trait-driven approach points to transmission via host foraging. *The American Naturalist* 191:435-451 (*Winner of the 2018 Student Paper Award from the American Naturalist*).
- (70) Stewart, T.E.** , M.E. Torchin, and **C.E. Cáceres**. 2018. Invisible parasites and their implications for coexisting water fleas. *Journal of Parasitology* 104:101-105.
- (69) Strauss, A.T., A.M. Bowling, M.A. Duffy, **C.E. Cáceres**, and S.R. Hall. 2018. Linking host traits, interactions with competitors, and disease: Mechanistic foundations for disease dilution. *Functional Ecology*, 32:1271-1279 <https://doi.org/10.1111/1365-2435.13066> (*Winner of the 2018 Haldane Prize for Early Career Research*).
- (68) Strauss, A.T., J.L. Hite, M.S. Shocket, **C.E. Cáceres**, M.A. Duffy, and S.R. Hall. 2017. Rapid evolution rescues hosts from competition and disease but—despite a dilution effect—increases the density of infected hosts. *Proceedings of the Royal Society of London Series B*. 284: 20171970 <http://dx.doi.org/10.1098/rspb.2017.1970>
- (67) Hite J.L., R. M. Penczykowski, M. S. Shocket, K. Griebel, A.T. Strauss, M. A. Duffy, **C. E. Cáceres**, and S.R. Hall. 2017. Allocation, not male resistance, increases male frequency during epidemics: a case study in facultatively sexual hosts. *Ecology* 98: 2773–2783.
- (66) Strauss, A.T., M.S. Shocket, D.J. Civitello, J.L. Hite, R.M. Penczykowski, M.A. Duffy, **C.E. Cáceres** and S.R. Hall. 2016. Habitat, predators, and hosts regulate disease in *Daphnia* through direct and indirect pathways. *Ecological Monographs*, 86:393-411 (*Winner of the 2017 Ecological Society of America Aquatic Section Frost Award*).
- (65) Holmes, C.J.** , J.H. Pantel, K.L. Schulz, and **C.E. Cáceres**. 2016. Initial genetic diversity enhances population establishment and alters genetic structuring in a newly established *Daphnia* metapopulation. *Molecular Ecology*, 25:3299–3308.

- (64) Holmes, C.J.** , S. Figary, K.L. Schulz, and **C.E. Cáceres**. 2016. Effects of diversity on community assembly dynamics in newly formed pond communities. *Ecosphere*, 7(7):e01377. 10.1002/ecs2.1377
- (63) Rapti, Z. and **C.E. Cáceres**. 2016. Effects of intrinsic and extrinsic host mortality on disease spread. *Bulletin of Mathematical Biology*, 78:235-253.
- (62) Hite, J.L., R.M. Penczykowski, M.S. Shocket, A.T. Strauss, P.A. Orlando, M.A. Duffy, **C.E. Cáceres**, and S.R. Hall. 2016. Parasites destabilize host populations by shifting stage-structured interactions. *Ecology*, 97:439-449.
- (61) Strauss, A.T., D.J. Civitello, **C.E. Cáceres**, and S.R. Hall. 2015. Success, failure and irrelevance of the dilution effect among competitors. *Ecology Letters*, 18:916-926. (Winner of the 2015 Ecological Society of America Disease Ecology Section Best Student Paper Award)
- (60) Bara, J.J. Z. Rapti, **C.E. Cáceres**, and E.J. Muturi. 2015. Effects of larval competition on extrinsic incubation period and vectorial capacity of *Aedes albopictus* for dengue virus. *PLoS One*, DOI: 10.1371/journal.pone.0126703
- (59) Crawford, J.W.** , I. Redlinski*, C.F. Steiner, and **C.E. Cáceres**. 2015. Life-history evolution in a *Daphnia ambigua* population during community assembly. *Journal of Plankton Research*, 37:409-416.
- (58) Searle, C., J. Ochs, **C.E. Cáceres**, S. Chaing, N. Gerardo, S.R. Hall, M.A. Duffy. 2015. Plasticity, not genetic variation, drives infection success of a fungal parasite. *Parasitology*, 142:839-848.
- (57) **Cáceres, C.E.**, G. Davis*, S. Duple*, S.R. Hall, A. Koss*, P. Lee* and Z. Rapti. 2014. Complex *Daphnia* interactions with parasites and competitors. *Mathematical Biosciences* 258:148-161.
- (56) **Cáceres, C.E.**, A.J. Tessier, M.A. Duffy, and S.R. Hall. 2014. Disease in freshwater zooplankton: what have we learned and where are we going? *Journal of Plankton Research* 36: 326–333. Invited Review
- (55) Bertram, C.R.** , M. Pinkowski*, S.R. Hall, M.A. Duffy, and **C.E. Cáceres**. 2013. Trait-mediated indirect effects, predators, and disease: test of a size-based model. *Oecologia* 173: 1023-1032.
- (54) Allen, M.R.** , J. VanDyke, R.A. Thum, and **C.E. Cáceres**. 2012. Trait sorting in *Daphnia* colonizing man-made lakes. *Freshwater Biology* 57: 1813-1822. Recommended by Faculty of 1000, Biology

- (53) Cristescu, M A., Constantin, D. Bock, **C.E Cáceres**, and T. Crease. 2012. Speciation with gene flow and the genetics of habitat transitions. *Molecular Ecology* 21:1411-1422.
- (52) Hall, S.R., C.R. Becker, M.A. Duffy, and **C.E. Cáceres**. 2012. A power-efficiency tradeoff in resource use alters epidemiological relationships. *Ecology* 93:645-656.
- (51) Overholt, E., S.R. Hall, C.E. Williamson, C. Meikle, M.A. Duffy, and **C.E. Cáceres**. 2012. Solar radiation decreases parasitism in *Daphnia*. *Ecology Letters* 15:47-54.
- (50) Prior, N.H.*, C.N. Washington*, J.N. Housley, S.R. Hall, M.A. Duffy, and **C.E. Cáceres**. 2011. Maternal effects and epidemiological traits in a planktonic host-parasite system. *Evolutionary Ecology Research* 13:401-413.
- (49) Duffy, M.A., J.M. Housley, R.M. Penczykowski, **C.E. Cáceres**, and S.R. Hall. 2011. Unhealthy herds: indirect effects of predators enhance two drivers of disease spread. *Functional Ecology* 25:945-953.
- (48) Thomas, S.H., C. Bertram**, K. van Rensburg*, **C.E. Cáceres** and M.A. Duffy. 2011. Spatiotemporal dynamics of free-living stages of a bacterial parasite of zooplankton. *Aquatic Microbial Ecology* 63:265-272.
- (47) Hall, S.R., C.R. Becker, M.A. Duffy, and **C.E. Cáceres**. 2011. Epidemic size determines population-level effects of fungal parasites on *Daphnia* hosts. *Oecologia* 166:833-842.
- (46) Allen, M.R.***, J.N. VanDyke, and **C.E. Cáceres**. 2011. Metacommunity assembly and sorting in newly formed lake communities. *Ecology* 92:269-275.
- (45) Colbourne, J.K., M.E. Pfrender, D. Gilbert, W.K. Thomas, A. Tucker, T.H. Oakley, S. Tokishita, A. Aerts, G. J. Arnold, M. Kumar Basu, D.J. Bauer, **C. E. Cáceres**, L. Carmel, C. Casola, J.-H. Choi, J.C. Detter, Q. Dong, S. Dusheyko, B.D. Eads, T. Fröhlich, K.A. Geiler-Samerotte, D. Gerlach, P. Hatcher, S. Jogdeo, Jeroen Krijgsveld, E. V. Kriventseva, D. Kültz, C. Laforsch, E. Lindquist, J. Lopez, J.R. Manak, J. Muller, J. Pangilinan, R.P. Patwardhan, S. Pitluck, E.J. Pritham, A. Rechtsteiner, M. Rho, I.B. Rogozin, O. Sakarya, A. Salamov, S. Schaack, H. Shapiro, Y. Shiga, C. Skalitzky, Z. Smith, A. Souvorov, W. Sung, Z. Tang, D. Tsuchiya, H. Tu, H. Vos, M. Wang, Y.I. Wolf, H. Yamagata, T. Yamada, Y. Ye, J.R. Shaw, J. Andrews, T.J. Crease, H. Tang, S.M. Lucas, H.M. Robertson, P. Bork, E.V. Koonin, E.M. Zdobnov, I.V. Grigoriev, M. Lynch, J.L. Boore. 2011. The ecoresponsive genome of *Daphnia pulex*. *Science* 331:555-561.
- (44) Hall, S.R., C.R. Becker, M.A. Duffy, and **C.E. Cáceres**. 2010. Variation in resource acquisition and use among host clones creates key epidemiological tradeoffs. *American Naturalist* 176:557-565.

- (43) Allen, M.R.***, R.A. Thum and **C.E. Cáceres**. 2010. Does local adaptation to resources explain genetic differentiation among *Daphnia* populations? *Molecular Ecology* 19: 3076-3087.
- (42) Duffy, M.A., **C.E. Cáceres**, S.R. Hall, A.J. Tessier and A. Ives. 2010. Temporal, spatial and between-host comparisons of patterns of parasitism in lake zooplankton. *Ecology* 91:3322-3331.
- (41) Hall, S.R., R. Smyth, C.R. Becker, M.A. Duffy, C.J. Knight*, S. MacIntyre, A.J. Tessier, and **C.E. Cáceres**. 2010. Why are *Daphnia* in some lakes sicker? Disease ecology, habitat structure, and the plankton. *BioScience* 60:363-375.
- (40) **Cáceres, C.E.**, C. Hartway and K. Paczolt*. 2009. Inbreeding depression varies with investment in sex in a facultative parthenogen. *Evolution* 63: 2474–2480.
- (39) **Cáceres, C.E.**, C.J. Knight*, and S.R. Hall. 2009. Predator spreaders: predation can enhance parasite success in a planktonic host-parasite system. *Ecology* 90:2850–2858. *Recommended by Faculty of 1000, Biology*
- (38) Hall, S.R., J.L. Simonis*, R.M. Nisbet, A.J. Tessier, and **C.E. Cáceres**. 2009. Resource ecology of virulence in a planktonic host-parasite system: an explanation using dynamic energy budgets. *American Naturalist* 174:149-162.
- (37) Ayroles, J.F**, K. A. Hughes, K.C. Rowe**, M.M. Reedy, S.L. Rodriguez-Zas, J.M. Drnevich, **C.E. Cáceres**, and K. N. Paige. 2009. A genome-wide assessment of inbreeding depression: gene number, function and mode of action. *Conservation Biology* 23:920-930.
- (36) Duffy, M.A., S.R. Hall, **C.E. Cáceres**, and A.R. Ives. 2009. Rapid evolution, seasonality, and the termination of epidemics. *Ecology* 90:1441–1448.
- (35) Hall, S.R., C.R. Becker, J.L. Simonis*, M.A. Duffy, A.J. Tessier, and **C.E. Cáceres**. 2009. Friendly competition: evidence for a dilution effect among competitors in a planktonic host-parasite system. *Ecology* 90:791-801.
- (34) Hall, S.R., C.M. Knight*, C.R. Becker, M.A. Duffy, A.J. Tessier, and **C.E. Cáceres**. 2009. Quality matters: food quality and the course of epidemics in planktonic host-parasite system. *Ecology Letters* 12:118-128.
- (33) **Cáceres, C. E.**, A.J. Tessier, A. Andreou*, and M.A. Duffy. 2008. Stoichiometric relationships in vernal pond plankton communities. *Freshwater Biology* 53:1291–1302.
- (32) Duffy, M.A., C.E. Brassil, S.R. Hall, A.J. Tessier, **C.E. Cáceres**, and J.K. Conner. 2008. Parasite-mediated disruptive selection in a natural *Daphnia* population. *BMC Evolution* 8:80.

- (31) Hall, S.R., C. Becker, and **C.E. Cáceres**. 2007. Parasitic castration: a perspective from a model of dynamic energy budgets. *Integrative and Comparative Biology* 47:295-309.
- (30) Storch, A.J., K.L. Schulz, **C.E. Cáceres**, P.M. Smyntek, J.M. Dettmers, M.A. Teece. 2007. Consumption of the exotic zooplankton, *Bythotrephes longimanus* and *Cercopagis pengoi*, by alewife (*Alosa pseudoharengus*) and rainbow smelt (*Osmerus mordax*) in three Laurentian Great Lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 64: 1314-1328.
- (29) Agrawal, A.A., D.D. Ackerly, F. Adler, A.E. Arnold, **C. Cáceres**, D.F. Doak, E. Post, P.J. Hudson, J. Maron, K.A. Mooney, M. Power, D. Schemske, J. Stachowicz, S. Strauss, M.G. Turner, and E. Werner. 2007. Filling key gaps in population and community ecology. *Frontiers in Ecology and the Environment* 5:145-152.
- (28) Steiner, C.F., **C.E. Cáceres**, S.D.P. Smith. 2007. Resurrecting the ghost of competition past with dormant zooplankton eggs. *American Naturalist* 169:416-422.
- (27) Hall, S.R., L. Sivars-Becker, C. Becker, M.A. Duffy, A.J. Tessier, and **C.E. Cáceres**. 2007. Eating yourself sick: transmission of disease as a function of foraging ecology. *Ecology Letters* 10:207-218.
- (26) **Cáceres, C.E.**, A.N. Christoff* and W.J. Boeing. 2007. Variation in ephippial buoyancy in *Daphnia pulicaria*. *Freshwater Biology* 52:313-318.
- (25) Hughes, K.A., J.F. Ayroles**, M. Reedy, J.M. Drnevich, K.C. Rowe**, **C.E. Cáceres**, K.N. Paige. 2006. Within-population variation in the transcriptome: cis versus trans regulation and dominance effects of alleles. *Genetics* 173:1347-1364.
- (24) Hall, S.R., A.J. Tessier, M.A. Duffy, M. Huebner, **C.E. Cáceres**. 2006. Warmer does not have to mean sicker: temperature and predators can jointly drive timing of epidemics. *Ecology* 87:1684-1695.
- (23) **Cáceres, C.E.**, S.R. Hall, M.A. Duffy, A.J. Tessier, C. Helmle, S. MacIntyre. 2006. Physical structure of lakes constrains epidemics in *Daphnia* populations. *Ecology* 87:1438-1444.
- (22) Witt, A.M.***, J.M. Dettmers, and **C.E. Cáceres**. 2005. *Cercopagis pengoi* in southwestern Lake Michigan in four years following invasion. *Journal of Great Lakes Research* 31:245-252.
- (21) Hall, S.R., M.A. Duffy, A.J. Tessier and **C.E. Cáceres**. 2005. Spatial heterogeneity of daphniid parasitism in lakes. *Oecologia* 143:635-644.
- (20) Hall, S.R., M.A. Duffy and **C.E. Cáceres**. 2005. Selective predation and productivity jointly drive complex behavior in host-parasite systems. *American*

Naturalist 165:70-81.

- (19) Witt, A.M.** and **C.E. Cáceres**. 2004. Potential predator-prey relationships between *Bythotrephes longimanus* and *Cercopagis pengoi* in southwestern Lake Michigan. *Journal of Great Lakes Research* 30:519-527.
- (18) **Cáceres, C.E.** and A.J. Tessier. 2004. Incidence of diapause varies among populations of *Daphnia pulicaria*. *Oecologia* 141:425-431.
- (17) Tessier, A.J. and **C.E. Cáceres**. 2004. Differentiation in sex investment by clones and populations of *Daphnia*. *Ecology Letters* 7:695-703.
- (16) Graeb, B.D.S.** , J.M. Dettmers, D.H. Wahl and **C.E. Cáceres**. 2004. Fish size and prey availability affect growth, survival, prey selection, and foraging behavior of larval yellow perch. *Transactions of the American Fisheries Society* 133:504-514.
- (15) **Cáceres, C.E.** and A.J. Tessier. 2004. To sink or swim: Variable diapause strategies among *Daphnia* species. *Limnology and Oceanography* 49:1333-1340.
- (14) Gerrish, G.A** , and **C.E. Cáceres**. 2003. Genetic versus environmental influence on pigment variation in the ephippia of *Daphnia pulicaria*. *Freshwater Biology* 48:1971-1982.
- (13) **Cáceres, C.E.** and A.J. Tessier. 2003. How long to rest: the ecology of optimal dormancy and environmental constraint. *Ecology* 84:1189-1198.
- (12) **Cáceres, C.E.** and D.A. Soluk. 2002. Blowing in the wind: a field test of overland dispersal and colonization by aquatic invertebrates. *Oecologia* 131:402-408.
- (11) Hairston, N.G., Jr., C.L. Holtmeier, W. Lampert, L.J. Weider, D.M. Post, J.M. Fischer, **C.E. Cáceres**, J.A. Fox, and U. Gaedke. 2001. Natural selection for grazer resistance to toxic cyanobacteria: Evolution of phenotypic plasticity? *Evolution* 55: 2203-2214.
- (10) **Cáceres, C.E.** and M.S. Schwalbach. 2001. How well do laboratory experiments explain field patterns of zooplankton emergence? *Freshwater Biology* 46:1179-1189.
- (9) Santer, B., E. Blohm-Sievers, **C.E. Cáceres**, and N.G. Hairston, Jr. 2000. Life-history variation in the coexisting freshwater copepods *Eudiaptomus gracilis* and *Eudiaptomus graciloides*. *Archiv für Hydrobiologie* 149:441-458.
- (8) Hairston, N.G., Jr., W. Lampert, **C.E. Cáceres**, C.L. Holtmeier, L.J. Weider, U. Gaedke, J.M. Fisher, J.A. Fox, and D.M. Post. 1999. Rapid evolution revealed by dormant eggs. *Nature* 401:446.

- (7) **Cáceres, C.E.** 1998. Interspecific variation in the abundance, production, and emergence of *Daphnia* diapausing eggs. *Ecology* 79:1699-1710.
- (6) **Cáceres, C.E.** and N.G. Hairston, Jr. 1998. Benthic-pelagic coupling in planktonic crustaceans: the role of the benthos. *Archiv für Hydrobiologie Special Issues Advancing Limnology* 52:163-174.
- (5) **Cáceres, C.E.** 1998. Seasonal dynamics and interspecific competition in Oneida Lake *Daphnia*. *Oecologia* 115:233-244.
- (4) **Cáceres, C.E.** 1997. Temporal variation, dormancy and coexistence: a field test of the storage effect. *Proceedings of the National Academy of Sciences, USA* 94:9171-9175. (Winner of the 1999 ASLO Lindeman Award)
- (3) **Cáceres, C.E.** 1997. Dormancy in invertebrates. *Invertebrate Biology* 116:371-383.
- (2) Hairston, N.G., Jr., and **C.E. Cáceres.** 1996. Distribution of crustacean diapause: micro- and macroevolutionary pattern and process. *Symposium on Diapause in the Crustacea: Developments in Hydrobiology. Hydrobiologia* 320:27-44.
- (1) Lehman, J.T., and **C.E. Cáceres.** 1993. Food-web responses to species invasion by a predatory invertebrate: *Bythotrephes* in Lake Michigan. *Limnology and Oceanography* 38:879-891.

Book Chapters and Other Publications

- 2019 Duffy, M.A., **C.E. Cáceres**, and S.R. Hall. Healthy herds or predator spreaders? Insights from the plankton into how predators suppress and spread disease. K. Wilson, A. Fenton, and D. Tompkins (eds.). Chapter 5, *Wildlife Disease Ecology. Accepted*
- 2016 **Cáceres, C.E.**, N.G. Hairston, L.G. Rudstam, E.L. Mills, T. O'Keefe, L.A. Davias, C. Hotaling, and L.E. Jones. Zooplankton in Oneida Lake: population dynamics, trophic interactions and the dormant egg bank. Rudstam, L.G. and E.L. Mills (eds). *Oneida Lake: Long-Term Dynamics of a Managed Ecosystem and its Fisheries.* Chapter 11, American Fisheries Society
- 2015 **C.E. Cáceres**, and D.C. Rogers. Class Branchiopoda. Pages 687-708 in Thorp, J. H. and D.C. Rogers (eds). *Ecology and General Biology. Thorp and Covich's Freshwater Invertebrates. Fourth Edition, Volume 1. Academic Press*
- 2009 Dodson, S.I., **C.E. Cáceres**, and D.C. Rogers. Cladocera and Other Branchiopoda. Thorp, J. H. and A. P. Covich (eds). *Ecology and Classification of North American Freshwater Invertebrates. Third Edition. Academic Press*
- 2008 Hall, S.R., J.H. Brown, **C.E. Cáceres**, J.M. Chase, A.P. Dobson, R.D. Holt, C.G. Jones, K.D. Lafferty, S.E. Randolph, P. Rohani. Is infectious disease just another

type of predator-prey interaction? Pp. 223-241 in R.S. Ostfeld, F. Keesing, and V.T. Eviner (eds). Reciprocal interactions between ecosystems and disease. Princeton University Press. Princeton University Press

- 2007 Agrawal, A.A., D. D. Ackerly, F. Adler, A. E. Arnold, **C. Cáceres**, D. F. Doak, E. Post, P. Hudson, J. Maron, K.A. Mooney, M. Power, D. Schemske, J. Stachowicz, S. Strauss, M.G. Turner, and E. Werner. In support of observational studies – Reply. *Frontiers in Ecology and the Environment* 5:294-295.
- 2007 Panov, V.E. and **C.E. Cáceres**. Role of diapause in dispersal of aquatic invertebrates. Pages 187-195 in V.R. Alekseev, B. De Stasio, and J.J. Gilbert (eds.), *Diapause in Aquatic Invertebrates*, Springer.
- 2005 **Cáceres, C.E.**, S.L. Mulvany*, K.A. Paczolt*, C.F. Steiner. Cladoceran community assembly in a recently created lake. *Internationale Vereinigung für Theoretische und Angewandte Limnologie, Verhandlungen*. 29:1020-1024.
- 1990 **Cáceres, C.E.** and J.T. Lehman. Spiny Tailed *Bythotrephes*: Its life history and effects on the Great Lakes. Michigan Sea Grant College Program. 7pp.

Recognition

- 2018-2020 Lynn M. Martin Professorial Scholar
- 2017 Fellow, American Association for the Advancement of Science
- 2016 Fellow, Ecological Society of America
- 2015 Sustaining Fellow, Association for the Sciences of Limnology & Oceanography
- 2015-2018 University Scholar, University of Illinois
- 2014-2015 Committee on Institutional Cooperation Academic Leadership Program
- 2009-2010 National Academies Education Fellow in the Life Sciences
- 2009 Campus award for Excellence in Undergraduate Teaching
- 2009 Lynn M. Martin Award for Distinguished Women Teachers
- 2006-2007 Helen Corley Petit Scholar
- 2003 Presidential Early Career Award for Scientists and Engineers (PECASE)
- 2002-2003 James A. Hagan Teaching Fellow, College of Liberal Arts and Sciences, University of Illinois
- Various List of teachers ranked as excellent by their students, UIUC (2002, 2004, 2006, 2007, 2011, 2015, 2016, 2017, 2018)
- 1999 R. L. Lindeman Award for the outstanding paper written by a young aquatic scientist, American Society of Limnology and Oceanography

Editorial Boards

- 2015- Senior Editor – *Limnology and Oceanography Letters*
- 2013-2017 Subject Matter Editor - *Ecology and Ecological Monographs*
- 2004-2013 Handling Editor - Aquatic Ecology Editorial Board – *Oecologia*

Invited Seminars

- 2019 Department of Biology, Smith College
- 2018 Tyson Research Center, Washington University in St. Louis
- 2017 Department of Biological Sciences, University of South Carolina
- 2017 Kellogg Biological Station, Michigan State University
- 2016 Centre D'Ecologie Fonctionnelle & Evolutive, Montpellier, France
- 2014 Department of Ecology and Evolutionary Biology, U. of Michigan
- 2014 Department of Ecology and Evolutionary Biology, Cornell University
- 2014 Department of Ecology and Evolutionary Biology, Rice University
- 2014 Biophysics and Computational Biology Seminar, UIUC
- 2012 Center for Marine and Environmental Studies, UVI St. Thomas, USVI
- 2012 Department of Biology, McGill University
- 2012 Department of Biology, UQAM
- 2011 Plenary Lecture, Association for the Sciences of Limnology and Oceanography, San Juan, PR.
- 2011 The Wenner-Gren Foundations and The Royal Swedish Academy of Sciences, 8th Kristineberg Symposium, Kristineberg/Fiskebäckskil, Sweden
- 2009 Celebration of 100 years of Limnology, Cornell University
- 2008 Department of Biology, Purdue University
- 2007 Graduate Student Invited Speaker, Department of Biology, University of Louisville
- 2004 Department of Biology, Dartmouth College
- 2003 Department of Biology, Illinois State University
- 2003 Department of Biology, Central Michigan University
- 2002 Biodiversity of Planktonic Communities: Scaling Up and Down, Ann Arbor, MI
- 2002 1st Annual Meeting of the *Daphnia* Genomics Consortium, Bloomington, IN
- 2001 Department of Zoology, University of Oklahoma
- 2001 Department of Ecology and Evolution, University of Chicago
- 2001 Department of Biology, Syracuse University
- 2001 Department of Ecology and Evolutionary Biology, Yale University
- 2001 Department of Biology, Notre Dame
- 2000 Savannah River Ecology Laboratory
- 2000 Department of Zoology, University of Wisconsin-Madison
- 2000 Department of Biology, University of California-Riverside
- 2000 Department of Ecology and Evolutionary Biology, Univ. of Tennessee-Knoxville
- 1999 Cole Award Lecture, Section of Ecology and Systematics, Cornell University
- 1999 Department of Biology, University of Pittsburgh
- 1997 Department of Entomology, University of Illinois
- 1997 Kellogg Biological Station, Michigan State University
- 1997 Second Int. Conf. on Diapause in the Crustacea, Ghent, Belgium
- 1997 Department of Ecology, Ethology & Evolution, University of Illinois
- 1997 Department of Biology, Southwest Missouri State University
- 1997 DIALOG II Conference, Bermuda

Educational Activities

Past courses

IB 199	Introduction to research
IB 299	BioMath
IB 105	Environmental Biology (General Education Course)
IB 150	Organismal and Evolutionary Biology
IB 449	Limnology (with laboratory)
IB 496/552	Concepts in Ecology (Topics Include: Advanced Limnology, Foundations of Ecology, Community Ecology, Life-history Evolution, Metacommunities, Current Topics in Ecology and Evolution, Invasive Species, Why Sex?, Phenotypic Plasticity)
IB 526	Graduate Seminar – Interdisciplinary training in hydrology, vectors and infectious diseases
IB 546	New Graduate Student Orientation Course

Current courses taught

IB 150	Organismal and Evolutionary Biology, James Scholar Section
IB 362	Marine Biology

Professional Societies, Service, and Leadership

American Association for the Advancement of Science

Association for the Sciences of Limnology and Oceanography

- Member, DIALOG III selection committee, 1999
- Member, ad hoc publications committee, 2000-2001
- Member, Meetings Committee, 2004-2006
- Elected Member – at – Large, Board of Directors, 2006-2009
- Founding Chair, early career committee, 2007-2009
- Member and Chair, education awards committee, 2008-2013 (Chair 2011-2013)
- Senior Editor, *Limnology and Oceanography Letters* 2015-
- Meeting Mentor, 2017

Ecological Society of America

- Member, ad hoc publications vision committee, 1998-1999
- Student awards judge, 2000, 2008, 2009
- Founding Vice Chair of the Disease Ecology Section 2014-2015, Chair, 2015-2016
- Subject Matter Editor, *Ecology* and *Ecological Monographs* 2013-2017

Entomological Society of America

- Program Symposium Organizer, with Allie Gardner, 2014

Society for the Study of Evolution

University of Illinois Committee Service

Prior Departmental and School Service

- EEE seminar committee, Chair, 1998-1999
- Animal Biology Grad Admission Committee, 2000-2001, 2005-2009, 2013
- SIB Courses and curriculum committee, 2001-2006
- SIB Distinction committee, 2001-2002
- PEEB admissions committee, 2001-2002
- PEEB seminar committee, 2002 – 2004

- SIB Assistant Professor Search Committee, 2004, 2010, 2011
- Animal Biology Director of Graduate Studies, 2006-2009
- PEEB Steering committee, 2006-2013 (Chair, 2009-2013)
- NRES Fish Ecologist Search Committee, 2006
- Director, Program in Ecology, Evolution and Conservation Biology, 2009-2013
- SIB workshops on Scientific Teaching (4), 2009-2010
- SIB On-line Instructor Search Committee, 2010
- SIB Technician Search Committee, 2010, 2011
- SIB Named Professor Search Committee Chair, 2013
- SIB undergraduate awards committee, Chair, 2018

Prior College and Campus service

- College of LAS Honor's Council, 2002-03
- Steering Committee, Water as a Complex Environment, 2005-2010
- LAS Committee on Admissions and Academic Standards, 2007-2008
- LASTA website advisory committee, 2008
- Graduate College Fellowship Committee, 2008-2013 (Area IV Chair in 2011-12; Chair 2012-13)
- LAS Faculty Input Team, 2010-2013
- Graduate College Review of Doctoral Programs, 2011
- Biology Coordinating Committee, 2013 – 2014
- LAS STAR committee, 2014-2018
- Provost Search Committee Chair for Visiting Chief Planner of new Medical School, 2015
- LAS Search Committee Chair for Director of Communications and Marketing, 2015
- LAS Search Committee for Director of Budget Resource Planning, 2016
- LAS Search Committee Chair for Faculty Director for Diversity and Inclusion, 2018
- Strategic Planning Taskforce Review Panel, 2018
- IGB GEGC theme review committee chair, 2018
- Thomas M. Siebel Chair search committee, Department of History, 2018

Current Committee Assignments

- Chair, SIB executive committee, 2013- present
- Institute for Sustainability, Energy and Environment, Steering Committee, 2014-present
- Advisory Board of the Program for Interdisciplinary and Industrial Internships at Illinois (PI4), 2014-present
- LAS Senior Women Faculty Advisory Committee, 2017-present
- Carver Biotechnology Center Advisory Committee, 2017-present
- University Scholars Committee, 2018 – present
- IGB Committee on Diversity (IGB-COD), 2018 – present
- DPI Health and Wellness working group, 2018-present

Recent Public Outreach

- “Campers Explore Biology” Summer Camp for 2nd-5th grade students. In partnership with the Orpheum Children’s Science Museum (2012, 2013) and Champaign Park District (2014-2019)
- Jr. Scientist Day, Yankee Ridge Elementary School, 2016, 2017, 2018, 2019, 2020 (co-coordinator)
- Next Generation School Science Fair Expert, 2019

Post-doctoral Research Associates

Spencer Hall, 2003 – 2005, Professor, Indiana University
 Christopher Steiner, 2004 – 2005, Associate Professor, Wayne State University
 Wiebke Boeing, 2004, Professor, New Mexico State
 Cynthia Hartway, 2005 – 2006, Research Associate, South Dakota State University
 Ryan Thum, 2006 – 2007, Professor, Montana State University
 Jalena Pantel, 2009 – 2011, Assistant Professor, The American University of Paris
 Matthew Schrader, 2012 – 2013, Assistant Professor, Sewanee University

Undergraduate Research Assistants (* denotes Senior Thesis, co-authors on published papers or manuscripts in review are underlined)

1. Abernathy, Grace*	2011-2013
2. Ali, Syed	2011
3. <u>Andreou, Andri *</u>	2000-2002
4. Andropolis Kalista	2004
5. Baldwin, Andrea	2017
6. Batterson, Sarah	2015
7. Benitez, Amanda	2009-2010
8. Buco Lora	2005-2006
9. Bullard, Elizabeth	2018
10. Casedy, Gareth	2005-2006
11. Calderon, Liliana	2013
12. Chand Vijay	2004-2006
13. Chen, Michael	2016
14. <u>Christoff, Anna *</u>	2004-2005
15. Copper, Anna	2011-2012
16. Drees, Jason	1999
17. <u>Davis, Glynn</u>	2012-2015
18. Delgado, Dyana	2009
19. Dinnon, Kaileen	2015-2017
20. <u>Duple, Sarah*</u>	2012-2015
21. <u>Emerson, Lauren*</u>	2014-2016
22. Garrett, Tiffany	2003-2004
23. Gray, Samantha	2018 -
24. Harriett, Grace	2008-2009
25. Heisel, Alissa	2014
26. Holda, Toby	2012

27. Holmes, Christopher	2011
28. Hsiao, Erin	2017
29. Hogan, Kelly	2011
30. Hughes, Katie	2005-2006
31. Jacques, Jessie	2005
32. Jaurigue, Amanda	2000-2001
33. Johnson, Jessie	2007
34. Keiser, Shalyn	2018 -
35. Khadri, Sana*	2015-2017
36. Kaplin, Lia	1998
37. <u>Knight, Christine*</u>	2005- 2009
38. Kopec, Sam*	2014-2016
39. <u>Koss, Adam</u>	2012
40. Ku, Vicki	2005
41. Lach, Izabella	2018
42. Laird, Veronika (Chiqui)	2017-
43. <u>Lee, Ping*</u>	2012-2013
44. Lofky, John	2008
45. Majewski, Mary	2005-2006
46. Mahrat, Sherin	2014
47. Matthews, Mariah	2012-2014
48. Marquardt, Amy	2004
49. McKay, Lauren	2015-2019
50. Menel, Ilona*	2014-2015
51. Morris, Jade	2002-2004
52. <u>Mulvany, Samantha*</u>	2001-2002
53. <u>Mueller-Brennan, Bridget</u>	2015-
54. Negri, Cecily	2017-
55. O'Brien, Jennifer *	2005
56. Ocloo, Xorla*	2014-2016
57. Oaks, Billy	2000
58. O'Connor, Sean	2010
59. Oleksyn, Diana	2018-
60. Osborn, Anna	2017-
61. <u>Paczolt Kimberly *</u>	2003-2004
62. Palacios, Elena	2016-2017
63. Park, Rena	2007-2008
64. Patel, Shreya	2005
65. Petrucelli, Alex	2005
66. Peddycoart, Mindy *	2004-2005
67. Pendleton, Langston	2016
68. Phillips, Bryan	1997-1998
69. Philpott, Dominic	2004
70. <u>Pinkowski, Mark</u>	2008-2012
71. <u>Prior, Nora *</u>	2007-2009
72. Rachubinski, Angela *	1999-2001

73. Randa, Beth	2005
74. Rende, Katy	2004-2005
75. Richards, Monique	2011
76. Robinson, Lindsay	1999
77. Rodriguez, Frankie	2012-2013
78. Sandkam, Ben	2008
79. Schwing, Cameron*	2016-2017
80. Schmuker, Peter	2016
81. Schnitzler, Zoe	2017-
82. Sharp, Danille	2005-2006
83. <u>Simones, Juniper</u>	2005
84. Smith, Kevin	2001
85. Specht, Sarah	2004-2006
86. Stream, Janessa (Graves)	2000
87. Sundaram, Gargi*	2015- 2017
88. Tavanakhatiri, Shayan	2018-2019
89. Tenegra, Johnny *	2004-2005
90. Tiltz, Ryan	2002-2003
91. Trujillo, Jacqueline	2018-
92. Verkler, Jelena	2014-2015
93. Vilensky, Benjamin	2018-
94. Wan, Rowena	2003-2004
95. Westfall, Nikki*	2011-2013
96. Wilson, Geneva	2009-2010
97. <u>Wolnowska, Iza*</u>	2005-2006
98. Wright, Hanna	2012-2015
99. Woolridge, Christopher	2013
100. Zhou, Vickie	2016-2018
101. Zilmer, Genevieve	2019-

GRADUATE STUDENTS

THESES AND DISSERTATIONS, AWARDS, AND CURRENT POSITIONS

Master of Science

Gretchen A. Gerrish (2001, Natural Resources and Environmental Sciences). Maintaining variation in aquatic systems: The causes and consequences of pigment variation in *Daphnia pulicaria* ephippial egg casings.

Thesis Publication:

Gerrish G. A. and C. E. Cáceres. 2003. Genetic vs. environmental influence on pigment variation in the ephippia of *Daphnia pulicaria*. *Freshwater Biology* 48:1971-1982

Awards: Best talk by a MS student at the 2001 Graduate Student Symposium

Current Position: Director, Trout Lake Station, Center for Limnology, University of Wisconsin – Madison.

Allison M. Witt (2003, Program in Ecology and Evolutionary Biology). Invasion dynamics of *Cercopagis pengoi* in southwestern Lake Michigan.

Thesis Publications:

Witt, A.M., and C. E. Cáceres. 2004. Potential predator-prey relationships between *Bythotrephes*

longimanus and *Cercopagis pengoi* in southwestern Lake Michigan. *Journal of Great Lakes Research* 30:19-527.

Witt, A.M., J.M. Dettmers, and C.E. Cáceres. 2005. *Cercopagis pengoi* in southwestern Lake Michigan in four years following invasion. *Journal of Great Lakes Research* 31:245-252.

Awards: Paul W. Rodgers Award, International Association of Great Lakes Research

Current Position: High School Teacher

Alejandra L. Stenger (2004, Biology). Inbreeding depression in *Daphnia*.

Awards: Fall 2003 Incomplete List of Teachers Ranked Excellent by Their Students (top 10%).

2004 John G. & Evelyn Hartman Heiligenstein Outstanding Teaching Assistant in Molecular & Cellular Biology

Current Position: Curriculum development, Department of Molecular & Cellular Biology, UIUC.

Johnny Tenegra (2007, Biology). Host-parasite interactions in *Daphnia*

Current Position: Physician and Assistant Professor, Southern Illinois University School of Medicine, Center for Family Medicine, Decatur, IL

Christopher Bertram (2011, Program in Ecology, Evolution and Conservation Biology)

Thesis Publications:

Thomas, S.H., C. Bertram, K. van Rensburg, C.E. Cáceres and M.A. Duffy. 2011. Spatiotemporal dynamics of free-living stages of a bacterial parasite of zooplankton. *Aquatic Microbial Ecology*, 63:265-272.

Bertram, C.R., M. Pinknowski*, S.R. Hall, M.A. Duffy, and C.E. Cáceres. 2013. Trait-mediated indirect effects, predators, and disease: test of a size-based model. *Oecologia*, 173: 1023-1032.

Awards: Best overall talk, GEEB symposium 2011, Teachers ranked as excellent Fall 2010.

Christopher Holmes (2014, Animal Biology)

Thesis Publications:

Holmes, C.J., J.H. Pantel, K.L. Schulz, and C.E. Cáceres. 2016. Initial genetic diversity enhances population establishment and alters genetic structuring in a newly established *Daphnia* metapopulation. *Molecular Ecology*, 25:3299-3308.

Holmes, C.J., S. Figary, K.L. Schulz, and C.E. Cáceres. 2016. Effects of diversity on community assembly dynamics in newly formed pond communities. *Ecosphere*, 7(7):e01377. 10.1002/ecs2.1377

Awards: Teachers ranked as excellent (each semester), Sigma Xi grant in aid of research.

Current Position: Program Manager of the Office of Undergraduate Research, University of Illinois

Cameron Schwing (current, Animal Biology)

Doctor of Philosophy

Michael Allen (2009, Program in Ecology, Evolution and Conservation Biology). Ecological and Evolutionary effects of dispersal on freshwater zooplankton.

Thesis Publications:

Allen, M.R. 2007. Measuring and modeling dispersal of adult zooplankton. *Oecologia* 153:135-143.

Allen, M.R., 2010. Genetic and environmental factors influence the survival of diapausing eggs. *Limnology and Oceanography* 55:549-559.

Allen, M.R. 2010, R.A. Thum and C.E. Cáceres. Does local adaptation to resources explain genetic differentiation among *Daphnia* populations? *Molecular Ecology*, 19: 3076-3087

Allen M.R., J. VanDyke J. & C.E. Cáceres. 2011. Metacommunity assembly and sorting in novel lake communities. *Ecology*, 92:269-275.

Awards: NSF pre-doctoral fellowship 2006, Best talk by a beginning graduate student, Graduate Student Symposium

Initial Position: NOAA postdoctoral fellow

Current Position: Assistant Director for Research, University of Maryland Center for Environmental Science.

Silvia Remolina (2010, Department of Animal Biology), Co-advised with Kim Hughes. Molecular basis of life-history divergence in the fruit fly *Drosophila melanogaster*.

Thesis publications:

Remolina, S.C., Hafez, D.M., Robinson, G.E., Hughes, K.A. 2007. Senescence in the worker honey bee, *Apis mellifera*. *Journal of Insect Physiology* 53:1027-1033.

Corona, M., Velarde, R.A., Remolina, S., Moran-Lauter, A., Wang, Y., Hughes, K.A., and Robinson, G.E. 2007. Vitellogenin, juvenile hormone, insulin signaling, and queen honey bee longevity. *Proceedings of the National Academy of Sciences* 104: 7128-7133.

Remolina, S.C., and Hughes, K.A. 2008. Evolutionary and mechanistic basis of long life and high fertility in queen honey bees. *Journal of the American Aging Association* 30:177-185.

Awards:

John G. & Evelyn Hartman Heiligenstein Outstanding Teaching Assistant Award, School of Integrative Biology, University of Illinois, 2009.

Harley J. Van Cleave Research Award, University of Illinois, 2010. Awarded for outstanding academic achievement and research potential in the fields of Cell and Structural Biology, Physiology, Genetics, Ecology, and Microbiology.

Animal Biology Alumni fund Award, University of Illinois 2010.

Initial and Current Position: Scientist at Tecan

Sigrid Smith (2010, Program in Ecology, Evolution and Conservation Biology)

Thesis publications:

Smith, S.D.P. 2012. Identifying and evaluating causes of alternative community states in wetland plant communities. *Oikos*, 121:675-686.

Smith, S.D.P. 2014. The roles of nitrogen and phosphorus in regulating the dominance of floating and submerged aquatic plants in a field mesocosm experiment. *Aquatic Botany* 112:1-9.

Awards: NSF GK-12 fellowship, Michigan State University, Doctoral Dissertation Improvement Grant, National Science Foundation, 2007-2010.

Initial Position: Postdoctoral fellow, University of Michigan

Current Position: Assistant Professor, Delaware State University

John Crawford (2017, Department of Animal Biology)

Awards: Teachers Ranked as Excellent by Students

Initial Position: Visiting Lecturer - UW Platteville

Current Position: Data & Assessment Specialist for the Stoughton Area School District

Christopher Holmes (Current, Department of Animal Biology)

Awards: Animal Biology Outstanding Teaching Award, Philip W. Smith Memorial Award, School of Integrative Biology, Teachers Ranked as Excellent by Students

Initial and Current Position: Program Manager of the Office of Undergraduate Research, University of Illinois

Lynette Strickland (Current, Department of Animal Biology)

Awards: NSF IGERT fellowship, 2014, GAANN fellowship, 2016, STRI fellowship, 2017, Teacher ranked as Excellent by Students

Thesis publications:

Strickland, L.R., C.F. Arias, V. Rodriguez, J.S. Johnston, W.O. McMillian, D. Windsor. 2018.

Inheritance, distribution and genetic differentiation of a color polymorphism in Panamanian populations of the tortoise beetle, *Chelymorpha alternans* (Coleoptera: Chrysomelidae). *Heredity*

Tara Stewart Merrill (Current, Program in Ecology, Evolution and Conservation Biology)

Awards: NSF IGERT fellowship, NSF GRFP fellowship, Best talk by a pre-prelim graduate student, GEEB symposium American Society of Parasitologists best talk award, Best overall talk GEEB symposium, NSF DDIG, Teachers Ranked as Excellent by Students

Thesis publications:

Stewart, T.E. and S.A. Schnitzer. 2017. Blurred lines between competition and parasitism. Early view: Biotropica DOI: 10.1111/btp.12444

Stewart, T.E., M.E. Torchin, and C.E. Cáceres. 2018. Invisible parasites and their implications for coexisting water fleas. *Journal of Parasitology* 104:101-105

Stewart Merrill, T.E. and C.E. Cáceres. 2018. Within-host complexity of a plankton-parasite interaction. *Ecology*

Other Activities since 2010

- 2019 Presenter – International Women’s Day Celebration “10 Women who changed the world: untold stories”. University of Illinois at Urbana – Champaign
- 2018 Committee of Visitors, National Science Foundation (MCB)
- 2017-2019 NSF Biology Advisory Committee (Chair in 2019)
- 2016-2019 Mobile Summer Institute local organizer
- 2015 Committee of Visitors, National Science Foundation (DEB)
- 2012 NSF-DEB pre-proposal panel
- 2010 Co-organizer, SIB teaching workshops