

**John R. Cooley**  
**Department of Ecology and Evolutionary Biology**  
**The University of Connecticut-Hartford**  
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**[www.cooley.eeb.uconn.edu](http://www.cooley.eeb.uconn.edu)**

**Teaching Interests:**

Active learning, peer groups, technological engagement.

**Research Interests:**

Speciation, secondary contact zones, sexual selection, GIS, species distribution modeling, pedagogical innovation.

**Current positions:**

Associate Professor in Residence, Department of Ecology and Evolutionary Biology, The University of Connecticut, Hartford, CT.  
Faculty Senate

**Positions and Teaching:**

***The University of Connecticut (Associate Professor in Residence, Assistant Professor in Residence, Instructional Specialist, Visiting Assistant Professor, Adjunct Professor; 2004- present)***

EEB 2100e Global Change Ecology  
EEB 2202: Evolution and Human Diversity  
EEB 2208e: Conservation Biology  
EEB 2214: Biology of the Vertebrates  
EEB 2244e: General Ecology  
EEB 2244W: Writing section for General Ecology  
EEB 2245: Evolutionary Biology  
EEB 2245W: Writing section for Evolutionary Biology  
EEB 2254W: Current Research Topics in EEB  
EEB 2258W: Current Topics in Conservation Biology  
EEB 2293WC: Methods of Field Ecology  
EEB 3244W: Writing in Ecology  
BIOL 1102: Foundations of Biology  
BIOL 1108: Principles of Biology II  
BIOL 1109: Topics in Modern Biology  
BIOL 2289: Introduction to Undergraduate Research  
EEB 3201: Animal Behavior  
EEB 3245: Evolutionary Medicine

***Wesleyan University (Visiting Assistant Professor of Integrative Sciences; 2016-2020)***

CIS 150: The Art of Scientific Writing.  
CIS 520: Academic Writing and Publishing.  
Undergraduate Summer Research Training.

***The University of Rhode Island (Adjunct Professor; 2011)***

Bio 272: General Evolution.

***The Ohio State University (Visiting Assistant Professor; 2009-2010)***

BIOL 114: Form, Function, Diversity and Ecology.

EEOB 370: Extinction.

EEOB 405.01: Diversity and Systematics of Organisms.

***Yale University (Lecturer; 2008-2009)***

E&EB 115a: Conservation Biology.

E&EB 220a: General Ecology.

E&EB 230a: Field Ecology.

E&EB 255b: Biology of the Invertebrates (2009).

E&EB 256Lb: Laboratory for Biology of the Invertebrates (2009).

***Department of Systems Engineering, Shizuoka University, Hamamatsu, Japan (Visiting Professor; 2010)***

Seminar in Field Ecology Research (2010).

***The University of Michigan (Graduate Student Teaching Assistant)***

BIO 154: Introduction to Biology.

BIO 195: Introduction to Biology.

BIO 305: Genetics.

BIO 494: Evolution and Human Behavior.

**Education:**

***M.B.A.***

School of Business, The University of Connecticut, Storrs, CT USA. Degree concentration in marketing and data analytics. **Awards:** Beta Gamma Sigma, Dean's Review. (2014)

***Postdoctoral Researcher***

Department of Ecology and Evolutionary Biology, The University of Connecticut, Storrs, CT USA. **Advisor:** Dr. Chris Simon. **Project:** NSF-DEB 99-82039 "Allochronic speciation, reproductive character displacement, and sexual selection in periodical cicadas (*Magicicada* spp.)"

***Ph.D.***

Department of Biology, The University of Michigan, Ann Arbor, MI USA. **Advisor:** Dr. Richard D. Alexander. **Thesis:** Sexual behavior in North American cicadas of the genera *Magicicada* and *Okanagana*. **Awards:** Regents' Fellowship. (1999)

***M.S.***

Department of Biology, The University of Michigan, Ann Arbor, MI USA. **Research:** Sexual behavior of syrphid flies in Colorado alpine tundra. (1992)

## **B.S.**

Department of Biology, Yale University, New Haven, CT USA. **Advisors:** Drs. Rob DeSalle and Charles Remington. **Thesis:** Biochemical approaches to phylogeny among the insect orders Hymenoptera, Coleoptera, Neuroptera, and Megaloptera. **Awards:** Honors, *Summa Cum Laude*, Phi Beta Kappa.

## **Awards**

Inaugural recipient of the Alpha Lambda Delta Faculty Award on the Hartford campus, 2024

## **Publications:**

- Cooley, J. R., Submitted. PUP: An active learning fusion of POGIL and Jigsaw educational design.
- Saito, N., S. Yamamoto, S. Kakishima, Y. Okuzaki, A. Rasmussen, D. Haji, S. Nomura, H. Tanaka, T. Ito, J. Yoshimura, C. Simon, J. Cooley, G. Kritsky, and T. Sota. 2025. When and how do 17-year periodical cicada nymphs decide to emerge? A field test of the four-year-gate hypothesis. *Proc. R. Soc. B* 292: 20251306.
- Cooley, J. R. 2025. The Cicadas of North America: A Review. *The American Entomologist*.
- Cuaresma, D. C. N, M. K. A. Gavina, J. F. Rabajante, J. M. Tubay, T. Okabe, S. Morita, K. Kobayashi, N. Mizumoto, H. Ito, J. Yoshimura, S. Kakishima and J. R. Cooley. 2024. Predation-driven geographical isolation of broods in periodical cicadas. *Scientific Reports* 14:27071.
- Cooley, J. R., and G. Holmes. 2023. Periodical cicadas (*Magicicada* spp.): Predator satiation, or too much of a good thing? *The Great Lakes Entomologist* 56: 121-125.
- Cole, J. A., W. Chatfield-Taylor, E. A. Smeds, J. R. Cooley, V. A. Gonzalez and C. Wong. 2023. Phylogeny of North America's largest cicada radiation redefines *Tibicinoides* and *Okanagana* (Hemiptera: Auchenorrhyncha: Cicadidae: Tibicininae). *Zootaxa* 5346(5): 501-531.
- Simon, C., J. R. Cooley, R. Karban, and T. Sota. 2022. Advances in the Evolution and Ecology of Thirteen- and Seventeen-Year Periodical Cicadas. *Annual Review Of Entomology* 67:457-82.
- Brumfield, K.D., M. J. Raupp, D. Haji, C. Simon, J. Graf, J. R. Cooley, S. T. Janton, R. C. Meister, A. Huq, R. R. Colwell. 2022. Gut microbiome insights from 16S rRNA analysis of 17-year periodical cicadas (Hemiptera: *Magicicada* spp.) Broods II, VI, and X. *Sci Rep* 12, 16967.
- Bator, J., D. C. Marshall, K. B. R. Hill, J. R. Cooley, A. Leston, and C. Simon. 2021. Phylogeography of New Zealand's endemic red-tailed cicadas, genus *Rhodopsalta* (Hemiptera: Cicadidae), and molecular, morphological, and bioacoustical confirmation of the existence of Hudson's *Rhodopsalta microdora*. *Zoological Journal Of The Linnean Society* 195 (4) 1219-1244.

- Cooley, J. R., D. C. Marshall, and C. Simon. 2021. Documenting Single-Generation Range Shifts of Periodical Cicada Brood VI (Hemiptera: Cicadidae: *Magicicada* spp.). *Annals Of The Entomological Society Of America* 114: 477-488.
- Cooley, J. R. and C. Simon. 2021. Billions of cicadas may be coming soon to trees near you. *The Conversation*, Retrieved 12 March 2021 from: <https://theconversation.com/billions-of-cicadas-may-be-coming-soon-to-trees-near-you-154780>
- Lovett, B., A. Macias, J. E. Stajich, J. Cooley, J. Eilenberg, H. H. d. F. Licht, and M. T. Kasson. 2020. Behavioral betrayal: How select fungal parasites enlist living insects to do their bidding. *PLOS Pathogens* 16(6) e1008598.
- Boyce, G. R., E. Gluck-Thaler, J. C. Slot, J. E. Stajich, W. J. Davis, T. Y. James, J. R. Cooley, D. G. Panaccione, J. Eilenberg, H. H. De Fine Licht, A. M. Macias, M. C. Berger, K. L. Wickert, C. M. Stauder, E. J. Spahr, M. D. Maust, A. M. Metheny, C. Simon, G. Kritsky, K. T. Hodge, R. A. Humber, T. Gullion, D. P. G. Short, T. Kijimoto, D. Mozgai, N. Arguedas, and M. T. Kasson. 2019. Psychoactive plant- and mushroom-associated alkaloids from two behavior modifying cicada pathogens. *Fungal Ecology* 41: 147-164.
- Du, Zhenyong, Hiroki Hasegawa, John R. Cooley, Chris Simon, Jin Yoshimura, Wanzhi Cai, Teiji Sota, and Hu Li. 2019. Mitochondrial genomics reveals shared phylogeographic patterns and demographic history among three periodical cicada species groups. *Molecular Biology And Evolution* 36(6): 1187-1200.
- Cooley, J. R., D. C. Marshall, and K. B. R. Hill. 2018. A specialized fungal parasite (*Massospora cicadina*) hijacks the sexual signals of periodical cicadas (Hemiptera: Cicadidae: *Magicicada*). *Scientific Reports* 8: 1432.
- Cooley, J. R., N. Arguedas, E. Bonaros, G. J. Bunker, S. M. Chiswell, A. DeGiovine, M. D. Edwards, D. Hassanieh, D. Haji, J. Knox, G. Kritsky, C. Mills, D. Mozgai, R. Troutman, J. D. Zyla, H. Hasegawa, T. Sota, J. Yoshimura, and C. Simon. 2018. The periodical cicada four-year acceleration hypothesis revisited: Evidence for life cycle decelerations and an updated map for Brood V (Hemiptera: *Magicicada* spp.). *PeerJ* 6:e5282.
- Fujisawa, T., T. Koyama, S. Kakishima, J. R. Cooley, C. Simon, J. Yoshimura, and T. Sota. 2018. Triplicate parallel life cycle divergence despite gene flow in periodical cicadas. *Communications Biology* 1:26.
- Marshall, D. C., M. Moulds, K. B. R. Hill, M. H. Villet, B. Price, E. Wade, C. L. Owen, G. Goemans, K. Marathe, V. Sarkar, J. R. Cooley, K. Kunte, and C. Simon. 2018. A molecular phylogeny of the cicadas (Hemiptera: Cicadidae) with a review of tribe and subfamily level classification. *Zootaxa* 4424:1-64.
- Marshall, D. C., K. B. R. Hill, and J. R. Cooley. 2017. Multimodal life cycle variation in 13- and 17-year periodical cicadas (*Magicicada* spp.). *Journal Of The Kansas Entomological Society* 90: 211-226.
- Kritsky, G., R. Troutman, D. Mozgai, C. Simon, S. M. Chiswell, S. Kakishima, T. Sota, J. Yoshimura, and J. R. Cooley. 2017. Evolution and Geographic Extent of a Surprising Northern Disjunct Population of 13-year Cicada Brood XXII (Hemiptera: Cicadidae, *Magicicada*). *The American Entomologist* 63: E15-E20.

- Koyama, T., H. Ito, T. Fujisawa, H. Ikeda, S. Kakishima, J. R. Cooley, C. Simon, J. Yoshimura, and T. Sota. 2016. Genomic divergence and lack of introgressive hybridization between two 13-year periodical cicadas supports life-cycle switching in the face of climate change. *Mol. Ecol.* 25: 5543-5556.
- Cooley, J. R., G. Kritsky, D. C. Marshall, K. B. R. Hill, G. J. Bunker, M. L. Neckermann, J. Yoshimura, J. E. Cooley, and C. Simon. 2016. A GIS-based map of periodical cicada Brood XIII in 2007, with notes on adjacent populations of Broods III and X (Hemiptera: *Magicicada* spp.). *The American Entomologist* 62:241-246.
- Cooley, J. R., C. Simon, C. Maier, D. C. Marshall, J. Yoshimura, S. M. Chiswell, M. D. Edwards, C. W. Holliday, R. Grantham, J. D. Zyla, R. L. Sanders, M. L. Neckermann, and G. J. Bunker. 2015. The distribution of periodical cicada (*Magicicada*) Brood II in 2013: Disjunct emergences suggest complex origins. *The American Entomologist* 61:245-251.
- Marshall, D. C., K. B. R. Hill, M. Moulds, D. Vanderpool, J. R. Cooley, A. B. Mohagan, and C. Simon. 2015. Inflation of molecular clock rates and dates: Biogeography, molecular phylogenetics, and diversification of a global cicada radiation from Australasia (Hemiptera: Cicadidae: Cicadettini). *Syst. Biol.* 65(1): 16-34
- Ito, H., S. Kakishima, T. Uehara, S. Morita, T. Koyama, T. Sota, J. R. Cooley, and J. Yoshimura. 2015. Evolution of periodicity in periodical cicadas. *Scientific Reports* 5:14094.
- Koyama, T., H. Ito, S. Kakishima, J. Yoshimura, J. R. Cooley, C. Simon, and T. Sota. 2015. Geographic body size variation in the periodical cicadas *Magicicada*: implications for life cycle divergence and local adaptation. *Journal of Evolutionary Biology* 28: 1270-1277.
- Cooley, J. R. 2015. The distribution of periodical cicada (*Magicicada*) Brood I in 2012, with new, previously unreported populations (Hemiptera: Cicadidae). *The American Entomologist* 61: 52-57.
- Hughes, Derke A., Richard A. Katz, Albert H. Nuttall, and John R. Cooley. Bio-acoustic Wave Energy Transducer. The United States Of America As Represented By The Secretary Of The Navy, assignee. Patent US 8,611,190 B1. 17 Dec. 2013. Print.
- Sota, T., S. Yamamoto, J. R. Cooley, K. B. R. Hill, C. Simon, and J. Yoshimura. 2013. Independent divergence of 13- and 17-y life cycles among three periodical cicada lineages. *PNAS* 110 (17): 6919-6924.
- Cooley, J. R., D. C. Marshall, A. F. Richards, R. D. Alexander, M. D. Irwin, J. R. Coelho, and C. Simon. 2013. The Distribution of Periodical Cicada Brood III in 1997, with special emphasis on Illinois (Hemiptera: *Magicicada* spp.). *American Entomologist* 59(1): 9-14.
- Cooley, J. R., M. L. Neckermann, G. Bunker, D. C. Marshall, and C. Simon. 2013. At the limits: Habitat suitability modeling of Northern 17-year periodical cicada extinctions (Hemiptera: *Magicicada* spp.). *Global Ecology and Biogeography* 22: 410-421.
- Nariai, Y., S. Hayashi, S. Morita, Y. Umemura, K. Tainaka, T. Sota, J. R. Cooley, and J. Yoshimura. 2011. Life cycle shifting by gene introduction under an Allee effect in periodical cicadas. *PLoS ONE* 6(4): e18347. doi:10.1371/journal.pone.0018347.

- Cooley, J. R., G. Kritsky, M. J. Edwards, J. D. Zyla, D. C. Marshall, K. B. R. Hill, G. Bunker, M. L. Neckermann, R. Troutman, J. Yoshimura, and C. Simon. 2011. Periodical cicadas (*Magicicada* spp.): A GIS-based map of Broods XIV in 2008 and "XV" in 2009. *The American Entomologist* 57 (3): 144-151.
- Marshall, D. C., J. R. Cooley, and K. B. R. Hill. 2011. Developmental Plasticity of Life-Cycle Length in Thirteen-Year Periodical Cicadas (Hemiptera: Cicadidae). *Annals of the Entomological Society of America*. 104(3): 443-450.
- Marshall, D. C., K. B. R. Hill, J. R. Cooley, C. Simon. 2011. Hybridization, Mitochondrial DNA Taxonomy, and Prediction of the Early Stages of Reproductive Isolation: Lessons from New Zealand Cicadas of the Genus *Kikihia*. *Systematic Biology* 60(4): 482-502.
- Cooley, John R. and P. Fonseca. 2010. Exploiting the bioacoustics of cicadas to enhance the efficiency of sound transmission: Methodology and findings. US Navy-NUWC internal report, 19 March 2010.
- Smits, A., J. R. Cooley, E. Westerman. 2010. Twig to Root: Egg nest density and underground nymph distribution in a periodical cicada (Hemiptera: *Magicicada septendecim* L.). *Entomologica Americana* 116: 73-77.
- Cooley, J. R., G. Kritsky, M. J. Edwards, J. D. Zyla, D. C. Marshall, K. B. R. Hill, R. Krauss, and C. Simon. 2009. The Distribution of Periodical Cicada Brood X in 2004. *The American Entomologist* 55(2): 106-112.
- Tanaka, Y., J. Yoshimura, C. Simon, J. R. Cooley, and K. Tainaka. 2009. The Allee effect in the selection for prime-numbered cycles in periodical cicadas. *PNAS* 106 (22): 8975-8979.
- Marshall, D. C., K. Slon, J. R. Cooley, K. B. R. Hill, C. Simon. 2008. Steady Plio-Pleistocene diversification and a 2-Million Year sympatry threshold in a New Zealand cicada radiation. *Molecular Phylogenetics and Evolution* 48: 1054-1066.
- Fontaine, K. M, J. R. Cooley, and C. Simon. 2007. Evidence for paternal leakage in hybrid periodical cicadas (Hemiptera: *Magicicada* spp.). *PLoS One* 9: e892 (DOI: pone.0000892).
- Bunker, G. J., M. L. Neckermann, and J. R. Cooley. 2007. New northern records of *Tibicen chloromera* (Hemiptera: Cicadidae) in Connecticut. *Transactions of the American Entomological Society* 133: 357-361.
- Cooley, J. R. 2007. Decoding asymmetries in reproductive character displacement. *Proceedings of the Academy of Natural Sciences of Philadelphia* 156: 89-96.
- Cooley, J. R., D. Marshall, C. Simon, and K. Hill. 2006. Reconstructing Asymmetrical Reproductive Character Displacement In A Periodical Cicada Contact Zone. *Journal of Evolutionary Biology* 19: 855-868.
- Hill, K. B. R., D. C. Marshall, and J. R. Cooley. 2005. Crossing Cook Strait: Probable human transportation of two New Zealand cicadas *Kikihia scutellaris* (Walker) and *K. ochrina* (Walker) (Hemiptera: Auchenorrhyncha: Cicadidae) from the North Island to the South Island. *New Zealand Entomologist* 28: 71-80.
- Cooley, J. R., D. C. Marshall, and C. Simon. 2004. The historical contraction of periodical cicada Brood VII (Hemiptera: Cicadidae: *Magicicada*). *Journal of the New York Entomological Society* 112: 198-204.

- Cooley, J. R., and D. C. Marshall. 2004. Thresholds or comparisons: Mate choice criteria and sexual selection in a periodical cicada, *Magicicada septendecim* (Hemiptera: Cicadidae). *Behaviour* 141: 647-673.
- Cooley, J. R. 2004. Asymmetry and mating success in a periodical cicada, *Magicicada septendecim* (Hemiptera: Cicadidae). *Ethology* 110: 1-17.
- Cooley, J. R., C. Simon, and D. C. Marshall. 2003. Temporal separation and speciation in periodical cicadas. *BioScience* 53: 151-157.
- Marshall, D. C., J. R. Cooley, and C. Simon. 2003. Holocene climate shifts, life-cycle plasticity, and speciation in periodical cicadas: A comment and reply to Cox and Carlton. *Evolution* 57: 433-437.
- Cooley, J. R., and D. C. Marshall. 2001. Sexual signaling in periodical cicadas, *Magicicada* spp. *Behaviour* 138: 827-855.
- Cooley, J. R. 2001. Long-range acoustical signals, phonotaxis, and risk in the sexual pair-forming behaviors of *Okanagana canadensis* and *O. rimosa* (Hemiptera: Cicadidae). *Ann. Ent. Soc. Amer.* 94: 755- 760.
- Cooley, J. R., C. Simon, D. C. Marshall, K. Slon, and C. Ehrhardt. 2001. Allochronic speciation and reproductive character displacement in periodical cicadas supported by mitochondrial DNA, song pitch, and abdominal sternite coloration data. *Molecular Ecology* 10:661-672.
- Marshall, D. C., and J. R. Cooley. 2000. Reproductive character displacement and speciation in periodical cicadas, and a new 13- year species, *Magicicada neotredecim*. *Evolution* 54: 1313-1325.
- Cooley, J. R., G. S. Hammond, and D. C. Marshall. 1998. The effects of enamel paint marks on the behavior and survival of the periodical cicada, *Magicicada septendecim* (L.) (Homoptera) and the lesser migratory grasshopper, *Melanoplus sanguinipes* (F.) (Orthoptera). *Great Lakes Entomologist* 31: 161-168.
- Alexander, R. D., D. C. Marshall, and J. R. Cooley. 1997. Evolutionary Perspectives on Insect Mating. Pp. 1- 31 in: B. Crespi , J. Choe, eds. *The evolution of mating systems in insects and arachnids*. (Cambridge University Press).
- Marshall, D. C., J. R. Cooley, R. D. Alexander, and T. E. Moore. 1996. New records of Michigan Cicadidae (Homoptera) with notes on the use of songs to monitor range changes. *Great Lakes Entomologist* 29: 165- 169.
- Cooley, J. R. 1995. Floral Heat Rewards and Direct Benefits to Insect Pollinators. *Ann. Ent. Soc. Amer.* 88: 576-579.
- Cooley, J. R. 1995. Functional hypotheses concerning the mating behavior of *Lytta nuttalli* Say (Coleoptera: Meloidae) in the Front Range of central Colorado. *Coleopterists Bulletin* 49(2): 132.

### **Websites:**

UConn Cicadas: [www.cicadas.uconn.edu](http://www.cicadas.uconn.edu)

Faculty: [www.cooley.eeb.uconn.edu](http://www.cooley.eeb.uconn.edu)

## Invited Presentations:

- Cooley, J. R. 2024. The 2024 Periodical Cicada Emergence. Chicago Botanic Garden, 3 June 2024.
- Cooley, J. R. 2021. Periodical Cicadas: A Puzzle, not a Plague. Department of Biology Seminar Series, George Mason University, 24 September 2021.
- Cooley, J. R. 2018. A Halloween Zombie Story. Wesleyan University College of Integrative Sciences Seminary Series, Middletown CT, 26 October 2018.
- Cooley, J. R. 2017. The singing insects in your backyard. Lorquin Entomological Society, Los Angeles CA, 17 November 2017.
- Cooley, J. R. 2017. Catching periodical cicadas in the act: Range shifts in the southern Appalachians (with a timely addendum about why Zombie Cicadas are to be avoided!). University of Maryland Department of Entomology seminar series, 27 October 2017.
- Cooley, J. R. 2015. Insect Singers. Bugfest, North Carolina Museum of Natural Sciences, 19 September 2015.
- Cooley J. R. 2015. Understanding Periodical Cicadas. Fontenelle Forest Nature Center, 7 June 2015.
- Cooley, J. R. 2014. Periodical Cicada Brood II. Connecticut State Museum of Natural History lecture series, 29 March 2014.
- Cooley, J. R., and David Rothenberg. 2013. Bug Music: The Marvelous *Magicicada* species. Cary Institute of Ecosystem Studies, Millbrook NY 7 June 2013.
- Cooley, J. R., and David Rothenberg. 2013. Cicada Summer Nature Week Program. Mohonk Mountain House, New Paltz, NY 3 -5 June 2013.
- Cooley, J. R. 2013. Cicadas: The Ultimate Science Street Fair. World Science Festival, Washington Square Park, 2 June 2013.
- Cooley, J. R., Rothenberg, David, and Zuk, Marlene. 2013. Cicada Serenades: Music, Mating, and Meaning. World Science Festival, New York Botanical Garden, June 1 2013.
- Cooley, J. R., Fisher, Helen, and Zuk, Marlene. 2013. The Joy of Six-Legged Sex: An evening of insect courtship and cocktails. World Science Festival, Staten Island Museum NY, 31 May 2013.
- Cooley, J. R. 2012. Periodical Cicadas. Walk-through demonstration for the Friends of the Brushy Hills, Lexington VA 26 May 2012.
- Cooley, J. R. 2011. The Evolution of Mating Isolation in a Periodical Cicada Contact Zone. University of Nebraska-Omaha, Graduate Seminar Series in Biology, 9 February 2011.
- Cooley, J. R. 2010. The Evolution of sex roles in cicadas. Shizuoka University Seminar Series, Hamamatsu Japan, 24 November 2010.
- Cooley, J. R. 2009. Listening to the hidden diversity around us. Department of Evolution, Ecology, and Organismal Biology Fall Seminar series, The Ohio State University, 5 November 2009.
- Cooley, J. R. 2009. Cicadas: Food for Thought. Yale University Department of Anthropology Colloquium Series, 26 March 2009.

- Cooley, J. R. 2008. Cicadas: The enigmatic insects. American Physical Society, Ridge NY, 10 October 2008.
- Cooley, J. R. 2004. Symposium co-organizer, "The science and the wonder of periodical cicadas" Entomological Society of America 2004 annual meeting, Salt Lake City UT.
- Cooley, J. R., 2002. Allochronic Speciation in Periodical Cicadas. Meeting of the New York Entomological Society, the American Museum of Natural History, 18 November 2002.
- Cooley, J. R., 2002. Signals, Sex roles, and Risks in cicadas: How cicadas find mates. 418th meeting of the Connecticut Entomological Society, Yale University, 18 October 2002.
- Cooley, J. R. 2001. Subtle signals, potent message. The function and exploitation of wing-flick signals in *Magicicada*. Monte Lloyd Memorial Symposium, Department of Ecology and Evolution, The University of Chicago, 13 May 2001.
- Cooley, J. R. 2000. Periodical Cicadas: Insights from exceptional insects. The University of Connecticut Department of Ecology and Evolutionary Biology Seminar Series, Spring 2000.
- Cooley, J. R. 1999. Mating behavior in cicadas: Contrasts between periodical and non-periodical species. Invited lecture, The University of Michigan Biological Station summer 1999 lecture series.
- Cooley, J. R., and D. C. Marshall. 1999. Deciphering and picturing animal sounds. The University of Michigan Exhibit Museum and Alumni Association lecture series, "The Nature of Art and Science," Spring 1999.
- Cooley, J. R., and D. C. Marshall. 1998. Reproductive Character Displacement, Life cycle Evolution, and a new periodical cicada species, *Magicicada neotredecim*. University of Michigan Museum of Zoology invited seminar, Fall 1998.

### **Funding:**

- Co-PI, UCONN-CLAS Scholarship of Teaching and Learning "UCONN FIRST in Biology: Fostering Ideal Regional Student Transitions in Biology" \$21,430.
- Co-PI, NSF-DEB-16-55891 "Exploring Endosymbiont Biodiversity and Complexity in the Family Cicadidae."
- Collaborator, NSF-DEB 09-55849 "Systematics and the biogeography of the family Cicadidae."
- Co-PI, NUWC-Newport: "Novel Bio-acoustic approach to improved sonar transmission power level generation with USW Application." DOD-DARPA
- PI, National Geographic Society: "Making modern maps of 2007-2009 *Magicicada* emergences"
- Co-PI, NSF-DEB 07-20664: "Systematics and biogeography of Australian Cicadettini and their relatives worldwide"
- Subcontract Co-PI, NSF-PEET 05-29679: "PEET: Auchenorrhyncha new experts" Funded through New York State Museum, Cultural Education Center, Albany, NY.

- Postdoctoral Researcher, NSF-DEB 99-82039 “Allochronic speciation, reproductive character displacement, and sexual selection in periodical cicadas (*Magicalcadas* spp.)”
- University of Michigan Regents’ Fellowship
- T. Roosevelt Memorial Fund: “Lek behavior of high alpine syrphid flies”
- Hinsdale Fellowship, University of Michigan Museum of Zoology
- Walker Fellowship, University of Michigan Museum of Zoology
- Colorado Mountain Club research grant
- University of Colorado Mountain Research Station research grant
- University of Michigan Block Grant

### Select Media and Outreach

Silverback Films, 2022. The Mating Game.

Klein, JoAnna. 2019. Drugged, Castrated, Eager to Mate: The Lives of Fungi-Infected Cicadas. *New York Times* (New York), June 25.

Featured presenter, World Science Festival, NY 29 May- 2 June 2013

Mohonk Mountain House Nature Week, New Paltz NY 3-5 June 2013

Cary Institute of Ecosystem Studies Lecture Series, Millbrook NY 7 June 2013

Interviewed for Lexington VA News-Gazette May 2012.

Interviewed for CBS Early Show, 2 June 2011.

Interviewed for NPR’s “Science Friday” Air date 21 May 2011.

Interviewed for WSIL-TV local news, 30 April 2011.

Interviewed for BBC-TV: “The Code” Filmed 2011, air date Fall 2011.

Brown, R. 2011. The South endures the buzz of the latest “cicada year.” *New York Times*, (New York), May 25; p. 14 sec. A.

Biemer J. 2007. Cicada brood is scientists' map quest. *Chicago Tribune*, (Chicago), June 23; p. 1 sec. 1.

Botts B. 2007. Cicada Love. *Chicago Tribune*, (Chicago), April 22; p. 1 sec. 15.

Brown K. 1999. Listen, we’re different. *New Scientist* 163: 32-5.

Clack K. M. 2003. Return of the cicadas. *Wilkes Journal-Patriot*, (North Wilkesboro, NC), June 6; p. 1 sec. 1.

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Charleston (WV) Daily Mail, 19 June 2008.

Weiss, Cindy. 2007. UCONN Scientists map mass emergence of cicadas in Midwest. The  
UCONN Advance, June 18, 2007.

**Consultant:**

Consultant (as Totoket Partners LLC) for UCONN Entrepreneurship and Innovation  
Consortium: Provided launch and marketing materials for a University-wide  
initiative.

Consultant (as Totoket Partners LLC) for Diverse Supplier Development Academy  
(www.dsdact.org): Provided curriculum and logistical support for a start-up  
nonprofit designed to increase the participation of minority-, women-, and veteran-  
owned businesses in contracting.

Consultant for Partridge Films: "The World of Wildlife" Series 2, Program 31: Seasons  
and Cycles. By Mark Hammond.

Consultant for Pixcom Productions, Montreal: "Insectia III: Outlaws". Air Date 18-05-  
2000. Paola D'Agnolo, Production Coordinator.

Consultant for Japan Tele-Work LTD: Series "Our Wonderful Spaceship". A film by Keiko  
Mori Yamada, with Mitsuhito Saito, Yasuo Kasugai, and Mitsuhiko Imamori.

Consultant for HGTV: "The secret lives of Gardens: Life in an Oak tree" Margaret Pickles,  
producer.

Consultant for BBC-TV: "Time Machine" Air Date: Summer 2004 (UK), Anushcka De  
Rohan, producer.

Consultant for BBC-TV: David Attenborough series, "Life in the Undergrowth" Episode 2.  
Tim Green, producer.

Consultant for CBS-TV CSI Season 3 Episode 6, Episode 305 "The Execution of Catherine  
Willows." Written by Carol Mendelsohn and Elizabeth Devine.

**University Service:**

Assessment Faculty Fellowship 2023-2025

UCONN University Senate 2025-

UCONN EEB Head Search Committee 2024

UCONN EEB Assessment Committee 2023-

UCONN CETL Teaching Innovation Award Committee 2021-

UCONN EEB NTT Promotion and Review Committee 2020

UCONN CLAS Biology Steering Committee 2020-

UCONN Hartford Campus Faculty Onboarding Committee 2019-

UCONN MBA Graduate Student Accelerator Program Self-Study, Fall 2013.

OSU Ethics education in Science and Engineering Study Group, OSU (2009-2010)

Personal Response System subcommittee of the UCONN IT planning committee (2006-  
2007)

Represented UCONN EEB department at Science, Engineering and Health Professions  
Collaborative Symposium for recruitment of minority students (2006-2007).

**Professional Societies:**

Entomological Society of America, Connecticut Entomological Society, Michigan Entomological Society, Society for the Study of Evolution, Society of Systematic Biologists, Phi Beta Kappa, Sigma Xi, Beta Gamma Sigma

**Collaborators (Other than those in publications list):**

Thomas Buckley, LandCare New Zealand.

Geoff Chambers, Victoria University, Wellington, New Zealand.

Paulo Fonseca, University of Lisbon, Lisbon Portugal.

Derke Hughes, US Navy NUWC Newport Rhode Island.

Max Moulds, The Australian Museum, Sydney, Australia.

**Peer Reviews:**

The American Naturalist, Annals, Entomological Society of America, Bioscience, Ecological Entomology, Ecology Letters, Entomological News, Entomological Society of Washington, Environmental Entomology, Evolution, Florida Entomologist, Invertebrate Systematics, Journal of Ethology, Journal of Applied Entomology, Journal of Biogeography, Journal of New Music Research, Nature: Scientific Reports, NSF, Proceedings, Royal Society, Systematics and Biodiversity, Zoology, Zootaxa.