

**Dr. Jessica L. Ware CV**

Assistant Curator of Invertebrate Zoology  
American Museum of Natural History  
NY, NY, 10024, USA

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**Education:**

2001, Bachelor of Science, University of British Columbia, Department of Zoology  
*Focus: Invertebrate Zoology*

2008, Doctor of Philosophy, Rutgers University, Department of Entomology

*Dissertation: Molecular and Morphological Systematics of Libelluloidea (Odonata: Anisoptera) and Dictyoptera*

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**Research Appointments:**

- Curator of Invertebrates, American Museum of Natural History, NY, NY, January 1, 2020- onward
  - Associate Professorship, Rutgers University, Newark, NJ July 2016- December 31, 2019
  - Assistant Professorship, Rutgers University, Newark, NJ, Sept 2010- July 2016
  - NSF Postdoctoral Research Fellowship, American Museum of Natural History, Fall 2008-2010
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**NSF Grantsmanship:**

1. NSF DEB Systematic Biology grant. Collaborative Research: GEODE: Genealogy and Ecology of Odonata: the first resolved evolutionary history and global biogeography of an entire insect order; June 1, 2020-2021, \$809,359
  2. NSF DBI ABI grant. ODOMATIC; September 2016-2019, \$432,015
  3. NSF DEB Systematic Biology Career grant. CAREER: Social networking: understanding sociality and symbiosis through the eye of non-Neoisopteran termites using molecular and morphological data; March 2015-2019, \$817,595
  4. NSF DEB Postdoctoral Research Fellowship: 2008-2010, \$123,000
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**Other grants and awards:**

1. Presidential Early Career Award for Science and Engineering (PECASE), July 2019, White House of the United States of America
  2. Leaders in Faculty Diversity Award, March 2019, Rutgers University
  3. National Geographic Young Explorers grant (co-PI with my graduate student, Melissa Sanchez Herrera), 2015, \$15,000
  4. Rutgers University Teaching Excellence Award, 2015, awarded at time of tenure
  5. Swedish Research Council grant (co-PI with Erik Svensson), 2013, \$50,000 SEK
  6. STINT Swedish Grant (co-PI Goran Sahlén), 2013, \$45,000 SEK
  7. Rutgers RU FAIR research award, 2012, \$18,000
  8. GAIA Foundation: Zoonosis and Society, 2014, Interdisciplinary Perspectives of Animal-to-Human Disease: \$10,000
  9. National Geographic co-PI with Dr. Christopher Beatty, 2008-2010, \$18,800
  10. Functional Constraints and Phylogenetic Information in Wing Venation of Dragonflies (Odonata, Anisoptera), Agency: DAAD, German Academic Exchange Program: Research Grants, Grant ID: A/07/71298, Project period: March 1-31, 2008, Award amount: €1650.00 Euros (\$2,260.43 USD)
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**Elected positions, Professional Societies**

- Vice President-elect, Entomological Society of America, May 2020 (a three year term, with Presidency in 2022)
- Director of Diversity, Equity and Inclusion Committee, Society for Systematic Biology, Summer (2020-present).
- President of the Worldwide Dragonfly Association (2019-2021)
- Governing board executive committee, Entomological Society of America, (2018-present)
- Governing board, Entomological Society of America (2017-present)
- Board member Society for Systematic Biology (2016-2018)
- President Systematics Evolution and Biodiversity section of Entomological Society of America (2013-2014)
- Secretary of the World Dragonfly Association (2013-2019)

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### Publications:

(★) Denotes papers co-authored with undergraduate

### Submitted manuscripts

1. William R. Kuhn, Melissa Sánchez Herrera, Manpreet K. Kohli, Dirk Gassmann<sup>4</sup>, John C. Abbott, and **Jessica L. Ware**. Introducing the Targeted Odonata Wing Digitization (TOWD) Initiative. *Methods in Ecology and Evolution*. Submitted March 2020. In review.
2. Manpreet Kohli, Harald Letsch, Carola Greve, Olivier Béthoux, Isabelle Deregnaucourt, Shanlin Liu, Xin Zhou, Alexander Donath, Christophe Mayer, Lars Podsiadlowski, Ryuichiro Machida, Oliver Niehuis, Jes Rust, Torsten Wappler, Bernhard Misof, **Jessica Ware**. How old are dragonflies and damselflies? Odonata (Insecta) transcriptomics resolve familial relationships and allow for testing of fossil impact on divergence time estimation. Submitted *Current Biology*, June 2020. In revision.
3. **Jessica Ware**, Manpreet Kaur Kohli, Ciara Mae Mendoza, Daniel Troast, Hiroshi Jinguji, Keith Hobson, Göran Sahlén, Frank Suhling. A Pantropical *Pantala* Conveyor Belt. *Ecological Entomology*. Submitted July, 2020. In revision.

### Peer-reviewed Publications:

1. Manpreet K. Kohli , Marie Djernæs, Melissa Sanchez-Herrera, Göran Sahlén , Erik Pilgrim, Thomas Simonsen, Kent Olsen, **Jessica L. Ware**. Comparative phylogeography uncovers the evolutionary past of circumboreal dragonflies. *Peer J*, accepted April 2021. In press.
2. **Jessica Ware**, Alix Whitener, Rebecca Simmons, Profiles of ESA Member Diversity: Melanie Kirby (P-IE Section) and Chris Hamilton (SysEB Section), *American Entomologist*, Volume 67, Issue 1, Spring 2021, Pages 54–59, <https://doi.org/10.1093/ae/tmab005>
3. Rushworth, Catherine A., Regina S. Baucom, Benjamin K. Blackman, Maurine Neiman, Maria E. Orive, Arun Sethuraman, **Jessica Ware**, and Daniel R. Matute. (2021). Who are we now? A demographic assessment of three evolution societies. *Evolution* 75 (2): 208-218.
4. **Ware, J. L.** (2021). Odonata. *Current Biology*, 31(2), R58-R59
5. Chris A. Hamilton, Jennifer M. Zaspel, Rebecca Simmons, Floyd Shockley, **Jessica Ware**, Aaron Smith. (2021). The future of a fair and equitable taxonomy. *Insects, Systematics and Diversity*.
6. Seth M. Bybee, Vincent J. Kalkman, Robert J. Erickson, Paul Frandsen, Jesse W. Breinholt, Anton Suvorov, Klaas-Douwe B. Dijkstra, Adolfo Cordero-Rivera, Jeffrey Skevington, John C. Abbott, Melissa Sanchez Herrera, Alan Lemmon, Emily Moriarty Lemmon, **Jessica L Ware**. (2021). Phylogeny and classification of Odonata using targeted genomics. *Molecular Phylogenetics and Evolution*. 107115
7. Evangelista, Dominic .A., Aaron Goodman, Manpreet K. Kohli, Stephanie S.T. Bondocgawa MafilaMills, Michelle Samuel-Foo, Melissa Sanchez Herrera, **Jessica L. Ware**, and Megan Wilson. (2020). Why diversity matters to those who study diversity. *American Entomologist*, Fall issue: 42-49.

8. John P. Simaika, **Jessica L. Ware**, Rosser Garrison, and Michael J. Samways. (2020). Phylogeny of the Synlestidae (Odonata: Zygoptera), with an emphasis on *Chlorolestes* Selys and *Ecchlorolestes* Barnard. *Nature Scientific Reports*.
9. Dominic A. Evangelista, Sabrina Simon, Megan M. Wilson, Akito Y. Kawahara, Manpreet K. Kohli, **Jessica L. Ware**, Benjamin Wipfler, Olivier Béthoux, Philippe Grandcolas, Frédéric Legendre. (2020). Assessing support for Blaberoidea phylogeny suggests optimal locus quality. *Systematic Entomology*.
10. Rana El-Sabaawi, Michael B. Kantar, Tiara Moore, Jelena H. Pantel, Michelle Tseng, **Jessica L. Ware** (2020). The EEB POC Project. *Limnology and Oceanography Bulletin*. 29(3):97-99. <https://doi.org/10.1002/lob.10390>
11. Tseng, M., El-Sabaawi, R. W., Kantar, M. B., Pantel, J. H., Srivastava, D. S., & **Ware, Jessica L.** (2020). Strategies and support for Black, Indigenous, and people of colour in ecology and evolutionary biology. *Nature Ecology & Evolution*, 1-3.
12. Melissa Sanchez Herrera, Christopher Beatty, Renato Nunes, Camilo Salazar, **Jessica L. Ware**. (2020). An exploration of the complex biogeographical history of the Neotropical banner-wing damselflies (Odonata: Polythoridae). *BMC Evolutionary Biology*. 20 (74). <https://doi.org/10.1186/s12862-020-01638-z>.
13. Diane S. Srivastava, **Jessica L. Ware**, Jacqueline T. Ngai, Brian M. Starzomski, Sarah L. Amundrud (2020). Habitat size thresholds for predators: why damselflies only occur in large bromeliads. *Biotropica* DOI: 10.1111/btp.12734
14. Taerum, S. J., Jasso-Selles, D. E., Wilson, M., **Ware, Jessica L.**, Sillam-Dussès, D., Šobotník, J., & Gile, G. H. (2019). Molecular Identity of *Holomastigotes* (Spirotrichonymphea, Parabasalia) with Descriptions of *Holomastigotes flavipes* n. sp. and *Holomastigotes tibialis* n. sp. *Journal of Eukaryotic Microbiology*.
15. Gemmellaro, M. D., Hamilton, G. C., & **Ware, Jessica L.** (2019). Review of Molecular Identification Techniques for Forensically Important Diptera. *Journal of medical entomology*, 56(4), 887-902.
16. Dominic A. Evangelista, Benjamin Wipfler, Olivier Béthoux, Alexander Donath, Mari Fujita, Manpreet K. Kohli, Frédéric Legendre, Shanlin Liu, Ryuichiro Machida, Bernhard Misof, Ralph S. Peters, Lars Podsiadlowski, Jes Rust, Kai Schuette, Ward Tollenaar, **Jessica L. Ware**, Torsten Wappler, Xin Zhou, Karen Meusemann and Sabrina Simon. (2019). An integrative phylogenomic approach illuminates the evolutionary history of cockroaches and termites (Blattodea). 286 *Proceedings of the Royal Society B: Biological Sciences* <http://doi.org/10.1098/rspb.2018.2076>
17. Ola M Fincke, Mingzi Xu, Emily S Khazan, Megan Wilson, **Jessica L. Ware**. (2018). Tests of hypotheses for morphological and genetic divergence in *Megaloprepus* damselflies across Neotropical forests. *Biological Journal of the Linnean Society*
18. Manpreet K Kohli, Goran Sahlén, William R Kuhn, **Jessica L. Ware**. (2018). Extremely low genetic diversity in a circumpolar dragonfly species, *Somatochlora sahlbergi* (Insecta: Odonata: Anisoptera). *Nature Scientific reports* 8 (1): 15114
19. Melissa Sánchez Herrera, Christopher Beatty, Renato Nunes, Emilio Realpe, Camilo Salazar and **Jessica L. Ware**. (2018). A molecular systematic analysis of the Neotropical banner winged damselflies (Polythoridae: Odonata. *Systematic Entomology*. 43(1): 56-67 DOI: 10.1111/syen.12249★
20. Li, Yu, Zhang, R., Liu, S., Donath, A., Peters, R.S., **Ware, Jessica**, Misof, B., Niehuis, O., Pfrender, M.E. and Zhou, X., (2017). The molecular evolutionary dynamics of oxidative phosphorylation (OXPHOS) genes in Hymenoptera. *BMC evolutionary biology*, 17(1):269
21. Barden, P. & **Ware, J.L.** (2017). Relevant Relicts: the impact of fossil distributions on biogeographic reconstruction in ants and dragonflies. *Insect Systematics and Diversity* 1(1): 73-80
22. Evangelista, Dominic, Gareth Russell, Godfrey Bourne, Kimberley Russell, & **Jessica L. Ware**. (2017). Evidence that dispersal barriers influence blaberoid cockroach assemblages in a neotropical savanna-forest matrix. *Insect Biodiversity and Conservation*. 10. 425–438. 10.1111/icad.12246

23. Gonzalez-Mozo, Laura, Stuart McKamey, **Jessica L. Ware**, George Hamilton. (2017). Two new species of Darnini (Hemiptera: Membracidae) from Colombia and Peru - *Zootaxa*
24. Kjer, K., Borowiec, M. L., Frandsen, P. B., **Ware, Jessica L.**, & Wiegmann, B. M. (2016). Advances using molecular data in insect systematics. *Current opinion in insect science*, 18, 40-47.
25. **Ware, Jessica L.**, & Barden, P. (2016). Incorporating fossils into hypotheses of insect phylogeny. *Current opinion in insect science*, 18, 69-76.
26. **Ware, Jessica L.**, Pilgrim, E., May, M. L., Donnelly, T. W., & Tennessen, K. (2017). Phylogenetic relationships of North American Gomphidae and their close relatives. *Systematic entomology*, 42(2), 347-358. DOI: 10.1111/syen.12218
27. Troast, Daniel, Sahlen, Goran, Suhling, Frank, Jinguji, M, **Ware, Jessica L.** (2016). A Global Population Genetic Study of *Pantala flavescens*. *PLoS One*. DOI: 10.1371/journal.pone.0148949
28. Letsch, Harald, Gottsberger, Brigitte, **Ware, Jessica L.** (2016) Not going with the flow: a comprehensive time-calibrated phylogeny of dragonflies (Anisoptera: Odonata: Insecta) provides evidence for the role of lentic habitats on diversification. *Molecular Ecology*. doi: 10.1111/mec.13562★
29. Jason T. Bried, Christopher Hassall, John P. Simaika, Jeffrey D. Corser, and **Jessica L. Ware**. (2015). Directions in dragonfly applied ecology and conservation science. *Freshwater Science* Vol. 34, No. 3: 1020-1022.
30. Ksepka, Dan, James Parham, Allman, Michael Benton, Carrano, Peter Cranston, Philip Donoghue, Jason Head, Emily Hermsen, Irmis, Joyce, Manpreet Kohli, Kristen Lamm, Lehr, Patane, David Polly, Phillips, Matt Smith, Nate Smith, Van Tuinen, **Jessica L. Ware**, Rachel Warnock. (2015). The Fossil Calibration Database: a new resource for divergence dating. *Systematic Biology*, syv025.
31. Kjer, Karl M., **Ware, Jessica L.**, Rust, J., Wappler. T., Zhou, X., Misof, B. and the 1KITE consortium\*. (2015). Response to comment on "Phylogenomics resolved the timing and pattern of insect evolution". *Science*. 487.
32. Dominic A. Evangelista, Kimberly Chan, Kayla L. Kaplan, Megan M. Wilson, **Jessica L. Ware** (2015). The Blattodea s.s. (Insecta, Dictyoptera) of the Guiana Shield. *Zookeys*. (475): 37–87.★
33. Sanchez-Herrera, M, WR Kuhn, MO Lorenzo-Carballa, KM Harding, N Ankrom, TN Sherratt, J Hoffman, H Van Gossum, **Jessica L. Ware**, A Cordero-Rivera, CD Beatty. (2015) Mixed signals? Morphological and molecular evidence suggest a color polymorphism in the Neotropical *Polythore* damselflies. *PLOS One*. ★
34. Winterton, Shaun, **Ware, Jessica L.**, Temporal and spatial evolution of therevoid clade flies with fossils included as terminal taxa (Diptera: Asiloidea). (2015) *Systematic Entomology*.
35. Bernhard Misof, Shanlin Liu, Karen Meusemann, Ralph S. Peters, Alexander Donath, Christoph Mayer, Paul B. Frandsen, **Jessica L. Ware**, Tomáš Flouri, Rolf G. Beutel, Oliver Niehuis, Malte Petersen, Fernando Izquierdo- Carrasco, Torsten Wappler, Jes Rust, Andre J. Aberer, Ulrike Aspöck, Horst Aspöck, Daniela Bartel, Alexander Blanke,, Simon Berger, Alexander Böhm, Thomas Buckley, Brett Calcott, Junqing Chen, Frank Friedrich, Makiko Fukui, Mari Fujita, Carola Greve, Peter Grobe, Shengchang Gu, Ying Huang, Lars S. Jermiin, Akito Y. Kawahara, Lars Krogmann, Martin Kubiak, Robert Lanfear, Harald Letsch, Yiyuan Li, Zhenyu Li, Jiguang Li, Haorong Lu, Ryuichiro Machida, Yuta Mashimo, Pashalia Kapli, Duane D. McKenna, Guanliang Meng, Yasutaka Nakagaki, José Luis Navarrete-Heredia, Michael Ott, Yanxiang Ou, Günther Pass, Lars Podsiadlowski, Hans Pohl, Björn M. v. Reumont, Kai Schütte, Kaoru Sekiya, Shota Shimizu, Adam Slipinski, Alexandros Stamatakis, Wenhui Song, Xu Su, Nikolaus U. Szucsich, Meihua Tan, Xuemei Tan, Min Tang, Jingbo Tang, Gerald Timelthaler, Shigekazu Tomizuka, Michelle Trautwein, Xiaoli Tong, Toshiki Uchifune,, Manfred G. Walz, Brian Wiegmann, Jeanne Wilbrandt, Benjamin Wipfler, Thomas K. F. Wong, Qiong Wu,, Gengxiong Wu, Yinlong Xie, Shenzhou Yang, Qing Yang, David K. Yeates, Kazunori Yoshizawa, Qing Zhang, Rui Zhang, Wenwei Zhang, Yunhui Zhang, Jing Zhao, Chengran Zhou, Lili Zhou, Tanja Ziesmann, Shijie Zou, Yingrui Li, Xun Xu, Yong Zhang, Huanming Yang, Jian Wang, Jun Wang, Karl M. Kjer, Xin Zhou.

Phylogenomics Resolves the Timing and Pattern of Insect Evolution. November 7, 2014. Science. (Cover image).

36. **Ware, Jessica L.**, Beatty, C, Sanchez Herrera, M, Valley, S, Johnson, J, Kerst, C, May, M, & Theischinger, G. (2014) The petaltail dragonflies (Odonata: Petaluridae): Mesozoic habitat specialists that survive to the modern day. *Journal of Biogeography*. (NGS funded project: 8709-09)
37. Ksepka, Dan T, **Ware, Jessica L.**, & Lamm, KS. (2014) Flying rocks and flying clocks: Discrepancies in fossil and molecular dates for birds. *Ecology Letters*.
38. Kohli, Manpreet K, Schneider, T, Muller, O, & **Ware, Jessica L.** (2014) Counting the spots: A molecular and morphological phylogeny of the spotted darner *Boyeria* (Odonata: Anisoptera: Aeshnidae) with an emphasis on European taxa. *Systematic Entomology*.
39. Evangelista, Dominic, Bourne, Godfrey & **Ware, Jessica L.** . (2014) Species richness estimates of Blattodea s.s. from northern Guyana vary depending upon method of species delimitation. *Systematic Entomology*.
40. Evangelista, Dominic, Buss, Leon, & **Ware, Jessica L.** (2013) Using DNA Barcodes to confirm the presence of a new invasive cockroach pest in New York City. *Journal of Economic Entomology*.
41. Dijkstra, K.-D.B., G. Bechly, S.M. Bybee, R.A. Dow, H.J. Dumont, G. Fleck, R.W. Garrison, M. Hämäläinen, V.J. Kalkman, H. Karube, M.L. May, A.G. Orr, D. Paulson, A.C. Rehn, G. Theischinger, J.W.H. Trueman, J. van Tol, N. von Ellenrieder & **Jessica L. Ware**. The classification and diversity of dragonflies and damselflies (Odonata). In: Zhang, Z.-Q. (Editor). Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. *Zootaxa* 3703: 36-45.
42. Rosario K, Dayaram A, Marinov Milen, **Ware Jessica L.**, Kraberger S, Stainton D, Breitbart Mary, Varsani Arvind. 2012. Journal of General Virology paper VIR/2012/045948: Diverse circular single-stranded DNA viruses discovered in dragonflies (Odonata: Epiprocta). Journal of General Virology. 0.045948-0
43. **Ware, Jessica L.**, Karlsson, M., Sahlén, G., Koch, K. 2012. The evolution of odonate ovariole conditions in Libellulidae. *Organisms Diversity and Evolution*. 12(3): 313-323. DOI: 10.1007/s13127-012-0096-0
44. Daniel T. Ksepka, Michael J. Benton, Matthew T. Carrano, Maria A. Gandolfo, Jason J. Head, Elizabeth J. Hermsen, Walter G. Joyce, Kristin S. Lamm, José S.L. Patané, Matthew J. Phillips, P. David Polly, **Jessica L. Ware**, Rachel C.M. Warnock, Marcel van Tuinen, James F. Parham. 2011. Synthesizing and databasing fossil calibrations: divergence dating and beyond. *Biology Letters* doi: 10.1098/rsbl.2011.0356
45. **Ware, Jessica L.** and Thomas, J. 2011. Molecular and Fossil Dating: A compatible match? *Entomologica Americana*. *Entomologica Americana*, 117(1&2):1-8.
46. Ballare, E. and **Jessica L. Ware**. 2011. Dragons Fly, Biologists Classify: an overview of molecular odonate studies, and our evolutionary understanding of dragonfly and damselfly (Insecta: Odonata) behavior. *International Journal of Odonatology*. 14(2): 137-147.
47. **Ware, Jessica L.** and Grimaldi, D. 2011. Insect rocks and insect clocks. *American Entomologist*. 57(1)
48. **Ware, Jessica L.**, Lal, S., Grimaldi, D. 2010. Mahogany-dwelling termites: a new species of *Neotermes* (Isoptera: Kalotermitidae) from Fiji. *Entomologica Americana* 116(1 & 2): 64-72.
49. **Ware, Jessica L.**, Grimaldi, D., Engel M. 2010. The Effects of Fossil Placement and Calibration on Divergence Times and Rates: An example from the Termites (Insecta: Isoptera). *Arthropod Structure and Development*. 38(2-3): 204-219.
50. Nielsen, A., **Ware, Jessica L.**, Mahar, J., Hamilton, G. 2009. Entomological Society of America Student Biosecurity Debate, PRO Position. *American Entomologist*. September issue.
51. **Ware, Jessica L.**, Simaika, J. P., Samways, M. 2009. Biogeography and divergence estimation of the relic Cape dragonfly genus *Syncordulia*: global significance and implications for conservation. *Zootaxa*. 2216: 22-36.

52. Baskinger, G., **Jessica Ware**, Cornell, D., M. May, K. Kjer. 2008. A phylogenetic exploration of *Celithemis* (Odonata: Libellulidae): the pennants of North America. *Odonatologica* 37(2): 101-109.★
53. **Ware, Jessica L.**, Litman, J., Klass, K-D, Spearman, L. 2008. Relationships among the major lineages of Dictyoptera: the effect of outgroup selection on dictyopteran tree topology *Systematic Entomology*, 33:429-450; \*top four most downloaded paper in *Sys. Ent.* for 2008
54. **Ware, Jessica L.**, Ho, S., Kjer, K. 2008. Divergence dates of libelluloid dragonflies (Odonata: Anisoptera) estimated from rRNA using paired-site substitution models. *Molecular Phylogenetics and Evolution*. 47(1):426-32.
55. **Ware, Jessica L.**, M. L. May, K.M. Kjer. 2007. Phylogeny of the higher Libelluloidea (Anisoptera: Odonata): an exploration of the most speciose superfamily of dragonflies. *Molecular Phylogenetics and Evolution* 45(1): 289-310.
56. Janmaat, Alida F., **Ware, Jessica L.**, Myers, Judy. 2007. Effects of crop type on *Bacillus thuringiensis* toxicity and residual activity against *Trichoplusia ni* in greenhouses. *Journal of Applied Entomology* 131(5): 333-337.
57. Karl M. Kjer, Frank L. Carle, Jesse Litman and **Jessica L. Ware**. 2006. A molecular phylogeny of Insecta. *Arthropod Systematics and Phylogeny* 64(1):35-44
58. Myers, J. H. and **Ware, Jessica L.** 2002. Setting priorities for the biological control of weeds: What to do and how to do it. In: *Proceedings, Hawaii Biological Control Workshop. Technical Report # 129.* Denslow, J. E., Hight, S.D. and Smith, C. W. (eds.) Honolulu: Pacific cooperative Studies Unit, University of Hawaii. Pp. 62-74

#### Book Reviews:

1. **Ware, Jessica L.** (2009). Review of “Dragonflies and Damselflies of South Africa” by Michael Samways, *The Quarterly Review of Biology*, 84(2): 209.
2. **Ware, Jessica L.** A review of Damselfly Genera of the New World: An illustrated and annotated key to the Zygoptera. (2011). *American Entomologist*. *American Entomologist*57 (2).
3. **Kuhn, WR, & Ware, Jessica L.** (2013) A review of “Dragonflies and Damselflies of the East (Princeton Field Guides)” by Dennis Paulson. *Entomologica Americana* 119(1&2): 46.
4. **Ware, Jessica, L.** (2020). A review of “Chasing dragonflies” by Cindy Crosby. *Minding Nature*, Fall 2020 issue.

#### Book Chapters:

1. da Silveira Queiroga D., Moura R.F., **Ware Jessica.** (2019) Genetic Connectivity in Conservation of Freshwater Insects. In: Del-Claro K., Guillermo R. (eds) *Aquatic Insects*. Springer, Cham
2. **Ware, Jessica L.** (2015). Evolutionary Entomology. In: *Memoirs of Black Entomologists: reflections on childhood, university and career experiences.* Ed: Eric W. Riddick, Michelle Samuel-Foo, Willye W. Bryan, and Alvin M. Simmons
3. Sanchez Herrera, M. and **Ware, Jessica L.** (2012). Biogeography of Dragonflies and Damselflies: Highly Mobile Predators. In: *Biogeography*. Ed: Maester, D.

#### Non-peer reviewed publications and Book Reviews:

1. **Ware, Jessica L.**, Louton, J. (2009), In the muck: collecting, rearing and imaging dragonfly and damselfly larvae for Encyclopedia of Life Odonata pages. *The Bug Dispatch: a newsletter of the NMNH Department of Entomology* 1(2): 3-4.
2. **Ware, Jessica L.**, Louton, J. (2009). A larva worth a thousand words: imaging preserved dragonfly nymphs using a digital camera. *Argia*
3. **Ware, Jessica L.** Grizmek Animal Life entries: *Anax junius* and *Libellula quadrimaculata*
4. Ian Biazzo, Godfrey R. Bourne, Dominic Evangelista, Joseph Evangelista, Vicki Funk, Melissa Sanchez-Herrera, Carol Kelloff, Manpreet Kaur Kohli, William Kuhn, Nicole Sroczynski, **Jessica L. Ware.** (2012). Guyana Days: collecting in the Northern Guyana Shield. *Argia*. ★
5. **Jessica L. Ware**, Patrick Hulick and Syrus Ware. (2020). Collecting dragonflies in Muskoka, Ontario, Canada. *Agrion* Summer issue.  
[https://worlddragonfly.org/wp-content/uploads/docs/agrion/Agrion\\_24-SI-COVID-19\\_May2020\\_hq\\_rev.pdf](https://worlddragonfly.org/wp-content/uploads/docs/agrion/Agrion_24-SI-COVID-19_May2020_hq_rev.pdf)

## Presentations:

### *Public talks:*

#### **Secret Science Club, August 2019:**

<http://secretscienceclub.blogspot.com/2019/08/beautiful-beasties-secret-science-club.html>

#### **AMNH Sci Cafe, January 6, 2021**

#### **CAS Breakfast Club, February 2, 2021**

### *Invited Professional Presentations:*

#### *Upcoming talks*

1. **Ware, Jessica L.** Scientific Queeries talk, April 13, 2021
2. **Ware, Jessica L.** U Wisconsin, April 15, 2021
3. **Ware, Jessica L.** U Central Florida, April 19, 2021
4. **Ware, Jessica L.** U Minnesota, April 20, 2021
5. **Ware, Jessica L.** U Vermont, April 28, 2021
6. **Ware, Jessica L.** Natural History Museum of Los Angeles County, April 29, 2021
7. **Ware, Jessica L.** Cornell, May 3, 2021
8. **Ware, Jessica L.** American Entomological Society, May 26, 2021
9. **Ware, Jessica L.** Eawag Kastanienbaum, June 2, 2021
10. **Ware, Jessica L.** U Arizona, June 16, 2021
11. **Ware, Jessica L.** Harvard, Cambridge Entomological Club, *Insect evolution*, Spring 2021

#### *Past talks*

12. **Ware, Jessica L.** Bruce Museum, April 8, 2021
13. **Ware, Jessica L.** Princeton University, April 8, 2021
14. **Ware, Jessica L.** University of Illinois class lecture, April 7, 2021
15. **Ware, Jessica L.** Garden State LSAMP presentation, April 5, 2021
16. **Ware, Jessica L.** Rutgers New Brunswick, Entomology class lecture, March 30, 2021
17. **Ware, Jessica L.** University of Toronto, Mississauga, *Insect Systematics*, March 26, 2021
18. **Ware, Jessica L.** Ana Carnaval CUNY class, March 24, 2021
19. **Ware, Jessica L.** Newcastle University, March 23, 2021
20. **Ware, Jessica L.** Drexel University, March 9, 2021
21. **Ware, Jessica L.** U Nebraska, March 5, 2021
22. **Ware, Jessica L.** Texas A & M panel on Black Entomologists, February 24, 2021
23. **Ware, Jessica L.** Halmstad University, Sweden, February 17, 2021
24. **Ware, Jessica L.** *U Washington Genome Sciences, WiGS-invited speaker*, February 17, 2021
25. **Ware, Jessica L.** Layola University Lauren Spearman class talk, February 16 and March 16, 2021
26. **Ware, Jessica L.** Oregon State University, January 27, 2021
27. **Ware, Jessica L.** NCSU, January 11, 2021



28. **Ware, Jessica L.** Washington University, December 7, 2020
29. **Ware, Jessica L.** Rutgers University, New Brunswick, Fall Seminar, December 3, 2020
30. **Ware, Jessica L.** Snodwiggs talk, Cornell, December 1, 2020
31. **Ware, Jessica L.** McGill University, November 26, 2020
32. **Ware, Jessica L.** G7: Decline of Insect Colonies panel, November 25, 2020
33. **Ware, Jessica L.** U Connecticut, November 19, 2020
34. **Ware, Jessica L.** CUNY, Amy Berkov Class lecture, November 6, 2020
35. **Ware, Jessica L.** U Bridgeport, November 2, 2020
36. **Ware, Jessica L.** U Idaho, October 30, 2020
37. **Ware, Jessica L.** Entomological Society of British Columbia, October 27, 2020
38. **Ware, Jessica L.** University of Bridgeport, *Dragonfly and damselfly evolution: understanding odonates through space and time*, November 2, 2020
39. **Ware, Jessica L.** UMass Amherst, Distinguished Scientists series, *Insect evolution: dragonfly and damselfly systematics*, October 23, 2020 (rescheduled due to COVID)
40. **Ware, Jessica L.** Blackburn course, U Florida, *Natural History Collections: virtual tour of AMNH dragonflies*, October 8, 2020
41. **Ware, Jessica L.** *International Branch Meeting Plenary talk*, <https://esc-sec.ca/2020/04/23/entomological-society-of-america-third-annual-international-branch-virtual-symposium-april-27-29-2020/>, April 2020
42. **Ware, Jessica L.** University of Tennessee, Knoxville, *Darwin Day talk*, February 2020
43. **Ware, Jessica L.** British Natural History Museum, *On the divergence of insects: using systematics to better understand the evolution of insect sociality, migration and flight*, July 2019
44. **Ware, Jessica L.** University of Illinois at Champaign Urbana, *On the divergence of insects: using systematics to better understand the evolution of insect sociality, migration and flight*, December 2019
45. **Ware, Jessica L.** Dresden Insect Systematics Meeting, *Phylogeny of Odonata*, September 2019
46. **Ware, Jessica L.** Dresden Insect Systematics Meeting, *Phylogeny of Isoptera*, September, 2019
47. **Ware, Jessica L.** Iowa, *Molecular phylogenetics and biology of dragonflies and damselflies*, October, 2018
48. **Ware, Jessica L.** University of Kansas, *Dragonfly and Dictyoptera systematics: Understanding insect evolutionary histories using molecular and morphological tools for odonates*, April 2017
49. **Ware, Jessica L.** Texas A & M, *Dragonfly and Dictyoptera systematics: understanding insect evolutionary histories using molecular and morphological tools*, Spring 2017
50. **Ware, Jessica L.** UBC, *Dragonfly and Dictyoptera systematics: understanding insect evolutionary histories using molecular and morphological tools*, March 2017
51. **Ware, Jessica L.** RU Camden, *Life on the (dragon)fly: donate molecular and morphological evolution*. February 2017
52. **Ware, Jessica L.** Brooklyn historical society: *Roaches*. <https://www.brooklynhistory.org/events/our-pesky-neighbors-part-2-bugs/>, November 2016
53. **Ware, Jessica L.** LGBTQ+ in STEM Conference (Oct. 5-9), TBD
54. **Ware, Jessica L.** Princeton University, *Insect genomics: the evolution of biodiversity*, February 2016
55. **Ware, Jessica L.** City college, *Understanding insect evolution through one thousand insect transcriptomes*, December, 2015
56. **Ware, Jessica L.** Drexel, *Insect evolution*. February 2015



57. **Ware, Jessica L.** Tomas Flouri, Pashali Kapli and Manpreet Kohli. *How to date big Insect datasets*. Insect Systematics and Phylogeny Annual Congress, Dresden, Germany, September 2015
58. **Ware, Jessica L.**, Blanke, A. *Insights into the Palaeoptera phylogeny*. Insect Systematics and Phylogeny Annual Congress, Dresden, Germany, September 2015
59. **Ware, Jessica L.**, Flouri, T., Kapli, P., Kohli, M. *An update on the Divergence Times Estimation subproject of 1KITE*. 3<sup>rd</sup> annual 1KITE meeting for Insect systematics, Vienna, Austria.
60. **Ware, Jessica L.** *Insect dating: insights on divergence time from the 1KITE initiative*. Drexel University, February, 2015
61. **Ware, Jessica L.**, *Dating the insect tree: divergence time estimation on big datasets*. Penn State University, December 2014
62. **Ware, Jessica L.** *Insect Biodiversity and Diversification Estimates using genomes and fossils*, Rutgers New Brunswick Entomology Departmental Seminar, October 2014
63. **Ware, Jessica L.**, *Dating 1KITE: or, how we spent the last several thousand hours*, 2<sup>nd</sup> annual 1KITE meeting for Insect systematics, North Carolina State University, Raleigh, NC, June 2014
64. **Ware, Jessica L.**, D. Ksepka, Parham, J. *The Fossil Calibration Database*, Insect Systematics and Phylogeny Annual Congress, Dresden, Germany, September 2013
65. **Ware, Jessica L.** *Skimming over Libelluloidea*. World Dragonfly Association International Meeting, Friesing, Germany, June, 2013
66. **Ware, Jessica L.** *1KITE dating methodology*. 1KITE international workshop on methodology, Jena, Germany, September 2013.
67. **Ware, Jessica L.** *Evolution 3001: modern applications of phylogenetics*. Halmstad University, Halmstad, Sweden, March 2013
68. **Ware, Jessica L.** *Using transcriptomics for insect systematics*. Santa Clara University, Santa Clara, California, February, 2013.
69. **Ware, Jessica L.** Berea, *Looking for Dragons: Odonata Research in the Genomics Age*, <https://www.berea.edu/convocations/2013-2014/dr-jessica-ware/>, September 2013
70. **Ware, Jessica L.** *1KITE: interpreting major insect innovations using transcriptomics or, Crushing insects into paste: the 1KITE project and the collection and use of arthropod DNA!* DNA banking workshop, Missouri Botanical Garden, January 2013.
71. **Ware, Jessica L.** *Here be dragons: systematics of Petaluridae*. Lund University, Sweden, May 2012
72. **Ware, Jessica L.** *Evolution 2001: modern applications of phylogenetics*. Halmstad University, Halmstad, Sweden, March 2012
73. **Ware, Jessica L.** *The phylogeny and age of Libelluloidea (Odonata)*. Insect Systematics and Phylogeny Annual Congress, Dresden, Germany, September 2011
74. **Ware, Jessica L.** *The mating and flight of dragons (and their kin): evolutionary biology of Odonata and Dictyoptera*. Smithsonian Institution, NMNH, May, 2011
75. **Ware, Jessica L.** *Systematics, behavior and evolutionary divergence times of a species-rich group of dragonflies, the Libelluloidea*. Oklahoma State University, Norman, Oklahoma, October 2010

76. **Ware, Jessica L.** *How to be social: molecular systematics of the lower termites*. Rutgers University, New Brunswick, NJ, October 2010
77. **Ware, Jessica L.**, *Practical uses of modern phylogenetics: a guide to molecular approaches for biogeography, biodiversity and dating lineages*. Lund University, Lund, Sweden, March 2010
78. **Ware, Jessica L.**, *Practical uses of modern phylogenetics: a guide to molecular approaches for biogeography, biodiversity and dating lineages*. Halmstad University, Halmstad, Sweden, March 2010
79. **Ware, Jessica L.**, *Broader uses of molecular and morphological systematics: social evolution in termites, the evolution of dragonfly genitalia and conservation of South African endemics*. New Jersey Institute of Technology, Newark, NJ, March 2009
80. **Ware, Jessica L.**, Grimaldi, D., Engel, M. *Fossil placement and divergence estimation in Isoptera*. Entomological Society of America Eastern Branch, Harrisburg, PA, March 2009
81. **Ware, Jessica L.**, *What to do when you're desperate for a date: using DNA to age dragonfly relationships*. Salisbury University, Salisbury, MD, November 2008
82. **Ware, Jessica L.** *The systematics of libelluloid dragonflies: Using molecular and morphological data to answer evolutionary riddles*. North American Benthological Society (NABS) annual meetings, Salt Lake City, Utah, May 2008
83. **Ware, Jessica L.**, *Molecules and morphology: a study of the dragonfly superfamily Libelluloidea*. Max-Planck-Institut für Metallforschung, Stuttgart, Germany, March 2008
84. **Ware, Jessica L.**, *An overview of Dragonfly (Odonata: Anisoptera) Systematics: using phylogenetic tools to answer age-old puzzles*. Smithsonian seminar series, Washington, D.C., January 23, 2008
85. Nielsen, A., **Ware, Jessica L.**, Mahar, J., Hamilton, G. *Entomological Society of America Student Debate*. National meeting, San Diego, California, December 2007
86. **Ware, Jessica L.**, *An introduction to the Dictyoptera*. Newark Entomological Society, New Brunswick, NJ, October 2007
87. **Ware, Jessica L.**, May, M. L., Kjer, K. M. *Molecular analysis of ancient lineages: divergence, DIVA, and dragonflies*. ESA Eastern Branch, Harrisburg, PA, March 2007

*Professional Presentations (all are oral presentations):*

1. A Nielsen, RE Valentin, D Fonseca, J Lockwood, **Jessica L. Ware**. *Can haplotype data guide management programs for tree fruit pests?* Entomology 2019
2. G Pearson, **Jessica L. Ware**, CS Moreau, A Suarez, GE Kampmeier, M Alleyne. *What are Ento-Allies?* Entomology 2019
3. MM Wilson, **Jessica L. Ware**. *Mandible morphology as a reflection of diet in basal termite lineages*. Entomology 2019
4. MK Kohli, M Djernæs, MS Herrera, EM Pilgrim, G Sählen, TJ Simonsen, **Jessica L. Ware**. *Comparative phylogeography uncovers evolutionary past of circumboreal dragonflies*. Entomology 2019
5. **Jessica L. Ware**, William Kuhn and John C. Abbott. *Using specimens from the past to understand the living world through digitization*. Eastern Branch, Entsoc 2019.
6. **Jessica L. Ware**. *Diversification rate shifts in lentic and lotic dragonflies*. Entomology 2018
7. LC Gonzalez, **Jessica L. Ware**. *Museum barcoding: Uncovering new species of Darnini (Hemiptera: Membracidae)*. Entomology 2018
8. M Kohli, **Jessica L. Ware**. *Fossil calibration tips for divergence estimation: A case study from insects*. Entomology 2018

9. AC Cullen, **Jessica L. Ware**, FJ Gallagher, C Holzapfel. *The great garden escape: The role of microevolution in the invasion of two ornamental viburnums*. 2018 ESA Annual Meeting (August 5--10)
10. **Jessica L. Ware**. *Speaking out for insect and human diversity at the March for Science*. Entomology 2017
11. Y Li, R Zhang, S Liu, A Donath, RS Peters, **Jessica L. Ware**, B Misof, O Niehuis. *The molecular evolutionary dynamics of Oxidative Phosphorylation (OXPHOS) genes in insects*. Entomology 2017
12. K Knapp, **Jessica L. Ware**. *The phylogeny of Macromiidae, inferred by molecular and morphological data*. Entomology 2017
13. S Smith, RA Clement, J Drury, R Guillermo-Ferreira, G Grether, Seth Bybee, **Jessica L. Ware**. *Solving the rubyspot mystery, a phylogeny of Hetaerina and Mnesarete*. Entomology 2017.
14. MS Herrera, CD Beatty, C Salazar, R Nunes, **Jessica L. Ware**. *A biogeographical story of the Neotropical banner wing damselflies (Zygoptera: Polythoridae)*. Entomology 2017
15. **Jessica L. Ware**, H Letsch, K Meusemann, A Blanke, MK Kohli, C Greive. *Transcriptomics to estimate the systematic relationships of Odonata*. Entomology 2017
16. Phillip Barden and **Jessica L. Ware**, *A tale of two datasets: Consilient approaches toward detailing the evolutionary history of ants (Hymenoptera: Formicidae)*. Entomology 2016
17. William R. Kuhn, Gareth Russell, and **Jessica L. Ware**. *Ode-omatic ID: A system for automatically identifying dragonflies and damselflies (Odonata) from wings*. Entomology 2016
18. **Ware, Jessica L.** *Insights on damselflies from the Bromeliad Working Group* Entomological Society of America, Portland, OR, November, 2014
19. Beatty, C., **Ware, Jessica L.** *The 'petaltail' dragonflies (Odonata: Petaluridae): Mesozoic habitat specialists that survive to the modern day*, Entomological Society of America, Texas, November, 2013.
20. **Ware, Jessica L.** Pilgrim, E. *A phylogeny of clubtails (Odonata: Gomphidae)*. Entomological Society of America, Texas, November, 2013.
21. **Ware, Jessica L.** *The systematics of lower termites*. Entomological Society of America, Knoxville, Tennessee, November 2012
22. **Ware, Jessica L.** *How old are modern dragonflies?* Entomological Society of America, Reno, NV, November 2011
23. **Ware, Jessica L.** *Do the rocks and the clocks agree for Insecta?: a review of recent insect molecular and fossil age estimates*. Entomological Society of America, San Diego, CA, December, 2010.
24. **Ware, Jessica L.**, *Termites (Isoptera): Fossil placement methodology and estimation of divergence times: an example from termites (Isoptera)*. Northeastern Symposium on Evolutionary Divergence Time, January 2010.
25. **Ware, Jessica L.** *From Anacanthotermes to Zootermopsis: the systematics of Isoptera*. Entomological Society of America, Indianapolis, IN, December 2009.
26. **Ware, Jessica L.** *Jessica Ware Snodgrass Award Talk*. Entomological Society of America, Reno, NV, November 2008.
27. **Ware, Jessica L.** *Phylogeny, homoplasy and divergence estimates within Libelluloidea (Anisoptera: Odonata): An exploration of the usefulness of molecular and morphological characters*. Entomological Society of America, Reno, NV, November 2008.
28. **Ware, Jessica L.**, Litman, J. R., Klass, K-D, Spearman, L. A. *Resolving internal relationships within the Dictyoptera poses new questions: difficulty in the placement of Polyphaga*. Entomological Society of America, San Diego, California, December 2007.
29. **Ware, Jessica L.**, May, M. L., *Functional constraints and phylogenetic information in wing venation of dragonflies (Odonata, Anisoptera)*. Entomological Society of America, San Diego, California, December 2007.
30. Baskinger, G., **Jessica L. Ware**, M. May, K. Kjer. *Phylogeny of Celithemis (Odonata: Libellulidae) based on analysis of molecular and morphological characters*. Dragonfly Society of the Americas, Springerville, Arizona, July 2007.

31. McLaughlin, M., **Jessica L. Ware**, M. May, K. Kjer. *Phylogeny of Epitheca (Tetragoneuria) (Odonata: Corduliidae) based on mitochondrial DNA*. Dragonfly Society of the Americas, Springerville, Arizona, July 2007.
32. **Ware, Jessica L.**, M. May. *Dragonfly flight behavior: an exploration of wing vein convergence in perchers and fliers*. Dragonfly Society of the Americas, Springerville, Arizona, July 2007.
33. **Ware, Jessica L.**, M. May, K. Kjer. *The most speciose group of dragonflies, Libelluloidea: phylogeny, dating and phylogeography*. World Dragonfly Association, Swakopmund, Namibia, April 2007 ★★ Outstanding Presentation Award
34. Baskinger, G., **Jessica L. Ware**, M. May, K. Kjer. *A proposed phylogeny of Celithemis (Odonata: Libellulidae) based on analysis of molecular and morphological characters*. Entomological Society of America, Indianapolis, IN, December 2006.
35. McLaughlin, M., **Jessica L. Ware**, M. May, K. Kjer. *Exploration of the phylogeny of Epitheca (Tetragoneuria) (Odonata: Corduliidae) based on mitochondrial and nuclear DNA*. Entomological Society of America, Indianapolis, IN, December 2006.
36. **Ware, Jessica L.**, M. May, K. Kjer. *Phylogeny of the superfamily Libelluloidea: revision*. Dragonfly Society of the Americas meeting, June 2006, Kentucky, USA
37. **Ware, Jessica L.**, *A Phylogeny of the superfamily Libelluloidea*. Systematic Biology meeting, June 2006, Stony Brook, New York, USA ★★ selected for the Ernst Mayr competition
38. **Ware, Jessica L.**, M. May, K. Kjer. *Phylogeny of the superfamily Libelluloidea*. Entomological Society of America, Fort Lauderdale, FL, December 2005 ★★ received a "President's Prize runner up" award
39. **Ware, Jessica L.**, *Dragonfly wing venation: a comparison of familial and behavioral groups*. Dragonfly Society of the Americas meeting, Arnprior, Ontario, Canada, July 2005

*Departmental Presentations:*

1. **Ware, Jessica L.**, A contribution to dragonfly and termite systematics: April 26, 2010, American Museum of Natural History
2. **Ware, Jessica L.**, *Molecules and Morphology: dragonfly and dictyopteran systematics*: June 16, 2008 (Thesis defense talk), Rutgers University
3. **Ware, Jessica L.**, *Phylogeny of Libelluloidea (Anisoptera: Odonata): an exploration of the most speciose superfamily of dragonflies*: March, 2007, Rutgers University
4. **Ware, Jessica L.**, *Phylogenetic analysis of Libelluloidea*: November 19, 2004, Rutgers University,
5. **Ware, Jessica L.**, Srivastava, D.S., *Larval growth in a bromeliad dwelling damselfly*: November 2003, Rutgers University
6. **Ware, Jessica L.**, *Costa Rican Travelogue*: September 2003, DEENR student seminar series, Rutgers University

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**Courses taught:**

1. Tropical Field Biology 468 Winter 2019
2. Tropical Field Biology 468 Summer 2019
3. Undergraduate Evolution 222 Fall 2018
4. Undergraduate Ecology 240 Fall 2011; Fall 2012; Fall 2013; Fall 2014; Fall 2016; Fall 2017
5. Insect Taxonomy Fall 2016
6. Rutgers Biology Colloquium 2011-2012; 2012-2013
7. Graduate Evolution 532 Spring 2011; Spring 2012; Spring 2013; Spring 2014; Spring 2015, Spring 2016; Spring 2017; Spring 2018

**Other teaching:**

8. Aim High summer school July 2011; July 2012
9. Catching insects: Cub Scouts of New Brunswick, October 2009
10. Insects and arachnids: Highland Park Public School, April 2012
11. Insects 101: Cranbury Public School, March 2011
12. Herpetology 101: Girl Scouts of Cranbury, January 2014
13. Insects and their kin: Cranbury Public Library, June 2013, June 2014

14. Women in Science: Cranbury Public Library, October 2014
15. Garden Pests: how to keep the good insects and get rid of the bad: NJ Garden Society, February, 2015
16. Insect biodiversity: Cub scouts of Mount Holly, NJ, May 2015
17. Ecology: Little Owl Enrichment ten hour summer camp program, Cranbury, NJ, July 2015, 2016
18. Talk and member of Panel discussion: Women and Science Symposium, March 2013.  
<http://www.ncas.rutgers.edu/campus-programs/women-science-symposium-kicks-womens-history-month-rutgers-newark>
19. Guest lecture in New Brunswick Gender and Science class, invited by Professor Kyla Schuller, April 2015

#### Recent Media interviews:

1. 2021. March, Yahoo:  
[https://www.yahoo.com/lifestyle/u-awaits-huge-17-cicada-154535916.html?guccounter=1&guce\\_referrer=aHR0cHM6Ly93d3cuZ29vZ2xlLmNvbS8&guce\\_referrer\\_sig=AQAAAEPOVuJBdi-ue7VhGoJK5KdTqqlMENI2O6OZ3q3sM8jCNSqQSqyj\\_Lw4\\_WBdBr0Tp2Udui\\_FG5yhZlL9drySWBqt\\_yB7NNvM6ad\\_1vMuCRRu3mW2XIPXyuNsT9CgG7RkuuQ0\\_VsA\\_5iy-VEntxFnhPpyiEsd60UywtoSbfeBell](https://www.yahoo.com/lifestyle/u-awaits-huge-17-cicada-154535916.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xlLmNvbS8&guce_referrer_sig=AQAAAEPOVuJBdi-ue7VhGoJK5KdTqqlMENI2O6OZ3q3sM8jCNSqQSqyj_Lw4_WBdBr0Tp2Udui_FG5yhZlL9drySWBqt_yB7NNvM6ad_1vMuCRRu3mW2XIPXyuNsT9CgG7RkuuQ0_VsA_5iy-VEntxFnhPpyiEsd60UywtoSbfeBell)
2. 2021. March 22, Reuters:  
<https://www.reuters.com/article/us-usa-cicada-preview/a-loud-month-for-sure-u-s-awaits-huge-17-year-cicada-hatch-idUSKBN2BE2SD>
3. 2021. March, FoxNews5:  
<https://www.fox5ny.com/news/get-ready-cicada-swarm-brood-x-expected-to-emerge-this-summer>
4. 2021. March 17.  
<https://www.vice.com/en/article/y3g8ey/how-to-survive-our-wet-hot-cicada-summer>
5. 2021. March 9. BBC. <https://www.bbc.co.uk/programmes/w3ct1p6c>
6. 2021. The Brian Lehrer Show - Noticing More Bugs?  
<http://www.wnyc.org/story/noticing-more-bugs/> via @WNYC
7. 2021. <https://gothamist.com/news/pandemic-adds-roach-infestations-its-list-living-nightmares?fbclid=IwAR3t980lighOPHfIW7DNJL7U0ssu0WqC498B6qVUwZNePM6wtw53IWW8iKg>
8. 2021. WNYC News:  
<https://www.wnyc.org/story/are-new-yorkers-experiencing-boom-pandemic-pests/>
9. 2020. Canadian Wildlife Magazine, interviewed August 10
10. 2020. Discover Magazine, interviewed July 28
11. 2020. The Wild Life radio show, interviewed July 14
12. 2020. Cell, interviewed June 11
13. 2020. Massive Science, interviewed June 9
14. 2020. Science News, interviewed June 8
15. 2020. Popular Science, interviewed April 24
16. 2020. Scholastic's Math Magazine, interviewed January 30
17. 2020. August. ABC Australia:  
<https://www.abc.net.au/news/2020-08-19/x-files-and-scully-effect-real-world-phenomenon-women-in-stem/12562440> (written article);  
<https://www.abc.net.au/radionational/programs/lifematters/the-scully-effect/12542828> (radio interview)
18. 2020. Gizmodo:  
<https://gizmodo.com/paleontologists-predict-what-future-animals-might-look-1843678894>
19. 2020. July. The Bee report podcast:  
<https://thebeereport.buzzsprout.com/819424/4610024-we-re-not-alone-how-racism-can-exist-in-entomology-and-how-we-can-change-it>

20. 2020. June. Getting Curious with Jonathan van Ness:  
<https://podcasts.apple.com/us/podcast/are-cicadas-only-ones-having-hawt-gurl-summer-entomologist/id1068563276?i=1000480883653>
21. 2020. June. Drawn together with Wendy McNaughton:  
<https://www.instagram.com/p/CB3fa7wJyH1/>
22. 2020. July. Beyond the Bench Podcast:  
<https://podcasts.apple.com/us/podcast/beyond-the-bench/id1517730294>
23. 2020. National Wildlife Magazine.  
<https://www.nwf.org/Magazines/National-Wildlife/2020/April-May/Conservation/Dragonflies>
24. 2019. 500 Women Scientists:  
<https://500womenscientists.org/updates/2019/3/24/so-much-left-to-learn>
25. 2019. Outside/In Radio broadcast interview:  
<http://outsideinradio.org/shows/2019/10/24/how-i-learned-to-stop-worrying-and-love-the-bug>
26. 2019. The Atlantic Monthly interview by Ed Yong:  
<https://www.theatlantic.com/science/archive/2019/02/insect-apocalypse-really-upon-us/583018/>
27. 2019. PBS: <https://www.pbs.org/wgbh/nova/article/bed-bugs-phylogeny/>
28. 2019. The Agenda, TV Ontario: <https://www.tv.o.org/video/the-bug-apocalypse>
29. 2019. Cool NYC events:  
<http://www.coolnycevents.com/2019/08/19/5-questions-with-entomologist-dr-jessica-ware/>
30. 2018. Big Picture Science:  
<http://blog.bigpicture-science.org/2018/12/bipisci-the-x-flies-jessica-ware-insect-die-off/>
31. 2018. The Conversation, Scully Effect:  
<https://theconversation.com/25-years-after-the-x-files-premiered-dana-scully-is-still-inspiring-women-to-pursue-stem-careers-102523>
32. 2017. Untamed Science: <https://untamedscience.com/jessica-ware/>
33. 2017. March for science coverage (partial list):
  - A. <https://theintercept.com/2017/04/22/why-they-march-science-and-scientists-are-now-under-attack/>;
  - B. <https://www.aplu.org/members/councils/research/cor-meetings/cor-2017/science%20march.pdf>;
  - C. [https://www.c-span.org/person/?jessicaware](https://www.c-span.org/person/?jessicaware;);
  - D. <https://www.newark.rutgers.edu/news/professor-jessica-ware-gets-featured-speaker-slot-march-science>;
  - E. <https://entomologytoday.org/tag/jessica-ware/>;
  - F. <https://www.nbcnews.com/science/science-news/march-science-demonstrators-say-they-re-real-patriots-n749686>
34. 2016. Quirks and Quarks, CBC Radio:  
<http://www.cbc.ca/radio/quirks/quirks-quarks-for-mar-12-2016-1.3487387/dragonflies-are-world-travellers-1.3487413>
35. 2016. Arthropod podcast:  
<http://arthro-pod.blogspot.com/2016/03/arthro-pod-episode-18-dance-with.html>
36. 2016. NPR:  
<https://www.npr.org/2016/08/27/491613567/why-do-we-only-see-dragonflies-in-the-summer>
37. 2016. Futurity, *Pantala*: <https://www.futurity.org/pantala-flavescens-dragonfly-1121142-2/>;
38. 2016. The Daily Targum, *Pantala*:  
<https://www.dailytargum.com/article/2016/03/rutgers-scientists-lead-study-discovering-worlds-longest-distance-flyer>
39. 2014. The New York Magazine: <https://nymag.com/news/features/cockroaches-2014-2/>
40. 2014. Ladybugs interview for NJ newspaper:  
<https://www.mycentraljersey.com/story/news/local/new-jersey/2014/12/01/welcome-ladybugs-home/19745179/>

41. 2014. Chiggers interview for NJ.com:  
[https://www.nj.com/indulge/2014/08/chiggers\\_the\\_myths\\_the\\_truths\\_and\\_my\\_story.html](https://www.nj.com/indulge/2014/08/chiggers_the_myths_the_truths_and_my_story.html)
42. 2014. The Daily Targum, roaches:  
<https://www.dailytargum.com/article/2014/04/researchers-find-cockroach-species>
43. 2014. 1kite insect paper (partial list of coverage): Wired Magazine:  
<https://www.wired.com/2014/11/when-did-insects-evolve/>; other coverage:  
<https://science.altmetric.com/details/2858126>
44. 2013. Science Friday, PBS: <https://www.sciencefriday.com/videos/winter-roach/>
45. 2010. Nature careers: <https://www.nature.com/naturecareers>

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**Service:**

**Non-Profits**

Entomologists of Color, [www.entopoc.org](http://www.entopoc.org), May 2020-present.

**Social media “talks”:**

June 2020: CAS Pride Panel: <https://www.youtube.com/watch?v=nZoxwSMxuqM>

June 2020: Scinet twitter takeover: <https://wke.lt/w/s/8kEg93>

**Directorships**

Graduate Program Director, Rutgers University, July 2017- December 31, 2019.

**Committees**

- Rutgers/NJIT biology graduate student admission committee (2011-2019)
- Ecology & Evolution remote sensing NJIT hiring search committee: Spring 2012; Spring 2013
- Evolution TT hiring committee, Rutgers, Spring 2016
- Evolution TT hiring committee, Rutgers, Spring 2017
- Evolution NTT hiring committee, Rutgers, Fall 2018
- Evolution TT hiring committee, Rutgers, Fall 2018
- Evolution NTT hiring committee, Rutgers, Spring 2019
- Departmental non-tenure-track reappointment committee, Rutgers, (2011-2019)
- Rutgers “Dean’s Undergraduate Summer Research Award” committee (2012-2019)
- Rutgers Research Council Grant panelist/reviewer: 2015
- Entomological Society of America’s membership committee (2011-2014), Snodgrass Award committee (2011-2013), Thomas Say award reviewer (2015), Diversity, Equity and Inclusion committee (2015-present).
- Departmental Graduate Program Director, Rutgers, (2017-2019)
- Rutgers Mentoring executive committee (2017-2018)
- Rutgers student teaching evaluation presidential committee 2017
- Rutgers student teaching Newark Chancellor’s task force (2017-2018)
- Rutgers SASN student teaching committee (2017-2018)
- Rutgers MSc enrollment task force 2018
- Rutgers Sexual Harassment Chancellor’s task force 2018
- Rutgers PLT Leadership Committee 2019
- Rutgers Mellon Leadership Fellow Committee 2019
- Senate DDE (Diversity, Development and Equity) Committee, American Museum of Natural History, Summer (2020-present)
- Senate ExComm committee, American Museum of Natural History, Summer 2020-present

**Miscellaneous mentoring**

- Invited external thesis defense member: Anna Runemark, Lund University, Sweden, May 2012
- Mentored students in the UBM (University Math and Biology) program at NJIT, Spring/Summer 2011; 2012
- NJ SEEDS summer mentoring program: Efua Oboui and Monishka Pierre (see below); 2011



- Organized and ran the research component of AIM HIGH, underprivileged High school mentoring program in Biology, Summer 2011, Summer 2012
- LSAMP student advisor 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019
- “Black2class” online mentoring event August 24-28, 2020:  
[https://docs.google.com/document/d/e/2PACX-1vRy8vstjYRBf5\\_St3dh-cp5NqOixh21EahK8CRW09vQ1\\_B-Mof\\_hvH5XfaGgtjwQtMaS4mRydu0kW3a/pub](https://docs.google.com/document/d/e/2PACX-1vRy8vstjYRBf5_St3dh-cp5NqOixh21EahK8CRW09vQ1_B-Mof_hvH5XfaGgtjwQtMaS4mRydu0kW3a/pub)

## **NSF**

- NSF panelist (Spring 2011; Fall 2013; Fall 2014, Spring 2015; Fall 2016; Spring 2017; Winter 2018; Fall 2019; Fall 2020)
- NSF Reviewer (eight ad hoc reviews)

## **Symposia organized**

Akito Y. Kawahara, **Jessica L. Ware**, Michelle Trautwein, and David K. Yeates, Symposium: Progress in Insect Phylogenomics: The Scale and Complexity of Next-Gen Datasets and Analyses. International Congress of Entomology 2016, Orlando, Florida

Genese Sodikoff, **Jessica L. Ware**, Rob Scott, Nukhet Varlik. Commerce and Contagion: a multi-symposium working group on zoonoses. Symposium one was “The Ebola Forum” held on New Brunswick campus of Rutgers in 2014, Symposium two was “Commerce and Contagion” held on the Newark campus of Rutgers in 2015.

**Jessica L. Ware**, John Lapolla, Paul Frandsen. Systematics, Evolution and Biodiversity. Eastern Branch meeting of the Entomological Society of America, Rehoboth Beach, DE, March 2015. 8 invited speakers, 40 attendees.

**Jessica L. Ware**, Merlijn Jocque and Dominic Evangelista. A hitchhiker's guide to the microcosmos. Entomological Society of America, Portland, OR, November 2014. 5 invited speakers, 20 attendees.

Melissa Sánchez Herrera, William R. Kuhn, Manpreet Kohli, **Jessica L. Ware**. Dynamics of the Tropical Ecosystems: A Bug's-Eye View of the Jungle, Entomological Society of America, Texas, November 2013; 10 invited speakers, 50 attendees.

Dominic Evangelista, **Jessica L. Ware**. More than Pests: cockroach biology and phylogeny. Entomological Society of America, Knoxville, TN, November 2012; 7 invited speakers, 30 attendees.

**Jessica L. Ware**, Sean Brady, Jessica Thomas. August, 2012. Molecular dating in entomology. The International Congress of Entomology, Daegu Korea.

Seth Bybee, **Jessica L. Ware**. November 13, 2011. An overlooked insect group: Odonata. The Entomological Society of America, Reno, NV, 14 invited speakers, 60+ attendees.

**Jessica L. Ware**, Jessica Thomas, Akito Kawahara. When Entomologists Date. The Entomological Society of America, San Diego, California, December 14, 2010. 14 invited speakers, 150+ attendees

Jessica Thomas, **Jessica L. Ware**. January 8, 2010. Northeastern Symposium on Evolutionary Divergence Time. Rutgers University, NJ, USA. Attendance: 17 invited speakers, 70 attendees; <http://nsedt.rutgers.edu>

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**Professional Society Memberships:**

North American Benthological Society, Black Entomologist Association, Entomological Society of America, Society for Systematic Biologists, Dragonfly Society of the Americas, Worldwide Dragonfly Association, AAAS, NYAS

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**Student mentoring:****High School students:**

1. Wlodtek Lapkiewicz (2005-2008);
2. Jonathan Payne (Summer 2009);
3. Efua Oboui (Summer, 2011);
4. Monishka Pierre (Summer, 2011);
5. NJ Earth Ecology Aim High (Summer, 2011; Summer 2012);
6. Michael Lau, Summer 2012 (Peddie Academy);
7. Lynna Ye, Summer 2013 (Peddie Academy)
8. John Bokman Winter-Summer 2014/2105 (Peddie Academy)
9. Julia Hu Winter-Summer 2014/2105 (Peddie Academy)
10. Charles Anderson Spring 2019 (North Star Academy)
11. Yasmeen Haruna, Summer 2020 (Peddie Academy)

**Undergraduate students:**

1. George Baskinger 2004-2007 (Rutgers New Brunswick, Research Experience for Undergraduates [REU] student and Undergrad Honors student mentor);
2. Mary McLaughlin 2004-2007 (Rutgers New Brunswick, REU student mentor);
3. Phillip Barden 2009 (AMNH Summer REU student mentor);
4. Blair Matarlo, 2010 (AMNH, Summer intern);
5. Dayana Sawh 2011 (Rutgers Newark, Undergraduate Honors student mentor);
6. Ian Biazzo 2011 (Rutgers Newark, Undergraduate Honors student mentor);
7. John Marin (Rutgers Newark, University Biology and Math student);
8. Sana Benoud (Rutgers Newark, University Biology and Math student);
9. Megan Wilson (Rutgers Newark, 2012-2013);
10. Tarik Hussein (Rutgers Newark, 2013);
11. Danny Bishara (Rutgers Newark, 2013);
12. Kimberly Guzman (Rutgers Newark, 2013-present)
13. Kimberly Chan (Rutgers Newark, 2012-2014\* received biology departmental award)
14. Folake Olamiju (Rutgers Newark, 2013-2014),
15. Adriana Morocho (Rutgers Newark, 2012-present)
16. Lucianny Lantigua (Rutgers Newark, 2012-present)
17. Lama Nourdienne (Rutgers Newark, 2014-present)
18. Gretta Cervallo (Rutgers Newark, 2013-present\* received biology departmental award)
19. Pia Colon (Rutgers Newark, 2011)
20. Leila Abbas (Rutgers Newark, 2012)
21. Irene Shaji (Rutgers Newark, 2012)
22. James Pimentel (Rutgers Newark, 2013)
23. Kayla Drobnis (Rutgers Newark, 2013, 2014)
24. Alana Lai (Rutgers Newark, 2015)
25. Ciara Mae Mendoza (Rutgers Newark, 2015)
26. Molly Duda (Rutgers Newark, 2015)
27. Erik Gamarra (Rutgers Newark, 2015)
28. Melody Zaradipour (Rutgers Newark, 2012)
29. Melanie Zaradipour (Rutgers Newark, 2012)
30. Erdine Sylvain (Rutgers Newark, 2015)
31. Beshoy Mankarious (Rutgers Newark, 2013)

32. Brais Castro (post-graduation from Rutgers Newark, 2014)
33. Ioulia Furman (NJIT, 2015-present)
34. Renato Nunez (Rutgers Newark, 2015-present)
35. Nevin Patel (Rutgers Newark, 2014-present)
36. Jeevitha Patel (Rutgers Newark, 2015)
37. Lailia Sanchez (Rutgers Newark, 2015)
38. Mariam Beshoy (Rutgers Newark, 2014-15)
39. Daniel Troast (Rutgers Newark, 2012-2014)
40. Sara Farid, Clinical Lab Science, 2012
41. Safia Khalid, Honors thesis, 2012
42. Dharti Patel (Honors thesis second reader, 2013)
43. Roxanna Gonzalez (Rutgers Newark, 2018-present)
44. Monica Del Orbe (Rutgers Newark, 2016-2018)
45. Salimata Fall (Rutgers Newark, 2018-present)
46. Katherine Rodriguez (Rutgers Newark, 2017- present)
47. Oladotun Ebunlomo (Rutgers Newark, 2018)
48. Aderonke Lawal (Rutgers Newark, 2018; received biology departmental award)
49. Edward Dimbo (Rutgers Newark, 2018)
50. Lattoya Chamacho (Rutgers Newark, 2018-present)
51. Lolia Roberts (Rutgers Newark, 2017-2018)
52. Mahanaaz Ismailzadah (Rutgers Newark, 2017-2019)
53. Ebere Okoro (Rutgers Newark, 2016-2018)
54. Nadia Kembu (Rutgers Newark, 2018-2019)
55. Maire Burder (Rutgers Newark, 2017-2019)
56. Carlos Macazana (Rutgers Newark, 2017-2018)
57. Katherine Vasquez (Rutgers Newark, 2017-present)
58. Ahmed Elmonier (Rutgers Newark, 2018-2019)
59. Claire Mirvis (Rutgers Newark, 2018-2019)
60. Ken Knapp (Rutgers Newark, 2016-2019)
61. Vivienne Paralta (Rutgers Newark, 2019-present)
62. Masahiro Fukura (Rutgers Newark, 2019-present)
63. Vaishnavi Mehta (Rutgers Newark, 2018-2019)
64. Barbara Dag-Sosu (Rutgers Newark, 2018-2019)
65. Marissa Sandoval (Berkley, AMNH REU Summer 2020)
66. Praanjal Das (Case Western University, AMNH REU Summer 2020)

***Graduate Students: those indicated with an \* have successfully defended their theses:***

1. Jayshree Patel (Master's student, Rutgers Newark; transferred to U Florida);
2. Melissa Sanchez Herrera (PhD student, Rutgers Newark, Defended Spring 2016\*);
3. Manpreet Kohli (Master's student, NJIT, Defended Summer 2012\*);
4. Manpreet Kohli (PhD student, Rutgers Newark, Defended Spring 2019\*);
5. Dominic Evangelista (PhD student, Rutgers Newark, Defended Spring 2016\*);
6. Will Kuhn (PhD student, Rutgers Newark, Defended Spring 2016\*);
7. Daniel Awari (Ms. Student, Rutgers Newark, Defended Spring 2012\*);
8. Jay Jeswal (Ms. Student, Rutgers Newark, Defended Spring 2013\*);
9. John Deyrup (Ms. Student, Rutgers Newark, Defended Spring 2013\*);
10. Dan Troast (Ms. Student, Rutgers Newark, Defended Spring 2016\*);
11. Megan Wilson (PhD Student, Rutgers Newark);
12. Denise Geramello (PhD Student, Rutgers New Brunswick, Defended Spring 2019\*);
13. Veronica Williamson (MSc Student, Rutgers New Brunswick);
14. Laura Gonzalez (PhD student, Rutgers New Brunswick);
15. Nene Ugbah (PhD Student, Rutgers Newark; left program Fall 2019);
16. Stephanie Mafla Mills (PhD Student, Rutgers Newark);
17. Jack Kellogg (Ms. Student, Rutgers Newark, Defended Winter 2019\*)

**Committee member:**

1. Anna Runemark (PhD student, Lund University, Sweden, Defended Spring 2012)\*;
2. Caroline Devan (Ph. D student, Rutgers Newark)\*;
3. Amanda Purwar (Ph.D. student, Rutgers New Brunswick)\*;
4. Gyanpriya Maharaj (PhD student, University of S. Missouri)\*;
5. Anthony Brusa (Ph.D. student, Rutgers, Newark)\*;
6. Tingmin Wu (Ms. Student, Rutgers Newark, Defended December 2011)\*;
7. John Francois (PhD student, Rutgers Newark, Defended Fall 2014)\*;
8. Nathalie Johannsson (Undergraduate Baccalaureate, Halmstad University, Sweden, Defended Spring 2014)\*;
9. Anna Deichman (Undergraduate Baccalaureate, Mainz University, Germany)\*;
10. Elenor Nordvisk (Undergraduate Baccalaureate, Halmstad University, Sweden, Spring 2015)\*;
11. Julian Rondon (Ph.D student, Rutgers Newark);
12. Sahil Wadhwa, (Ph.D student, Rutgers Newark)\*;
13. Courtney Rockenbach (Ph.D student, Rutgers Newark);
14. Rebecca Panko (Ph.D student, Rutgers Newark)\*
15. Sean Fan (Ph.D student, NJIT)\*
16. Nayeli Gutierrez (PhD student, RGGGS)
17. Hollister Herhold (PhD student, RGGGS)

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**Taxonomic Collaborator**

California Academy of Sciences Madagascar Project 2006-present  
Smithsonian Encyclopedia of Life Fellow responsible for Odonata 2008-present

**Research Associate Status**

I am a research associate at the Smithsonian Institution Museum of Natural History.

**Working Groups**

1. NESCENT (National Evolutionary Synthesis Center) Fossil Calibration Working Group. Product: the FCD (Fossil Calibration Database), an online resource for molecular dating
2. 1KITE (1000 Insect Transcriptome Evolution). Product: phylogeny-based peer reviewed publications on insect systematics; Software for gene orthology prediction.
3. NESCENT Odonata genomics working group 2014-present

**Editorial Service**

1. Science magazine Advisory Board (BoRE), *Science*, (current)
2. Editorial Board Member, *Organismal Diversity and Evolution* (current)
3. Editorial Board Member, *International Journal of Odonatology* (subject editor: *molecular biology*) (current)
4. Editorial Board Member, *Nature*, *Scientific Reports* (current)
5. Editorial Board Member, *Journal of Insect Science* (current)
6. Editorial Board Member, *Odonatologica* (current)
7. Editorial Board Member, *Systematic Entomology* (current)
8. Editorial Board Member, *Insects Systematics and Diversity* (current)
9. Editorial Board Member, *Systematics, Diversity and Evolution* (current)

**Peer Review Service**

Arthropod Structure and Development, Arthropod, Systematics and Phylogeny, Aquatic Ecology, Bioscience, BMC Biology, Cladistics, Conservation Genetics, Entomologica Americana, Evolution, Freshwater Biology, Geobios, Genomics, International Journal of Odonatology, Insect Conservation and Biodiversity, Journal of Insect Science, Journal of Palaeontology, Molecular Phylogenetics and Evolution, Nature Scientific Reports, Neotropical Ecology, Organismal Diversity and Evolution, PLoS One, Royal Biological Linn. Society, Systematic Biology, Systematic Entomology, Tropical Biology, Tropical Ecology,

Zookeys, Zootaxa. American Entomologist (Organized instant symposium), Entomologica Americana (Guest Editorship), Organisms Diversity and Evolution (Guest Editorship), Southeastern Naturalist (Guest Editorship)

**Museum Collections visited:**

British Natural History Museum, UK; California Academy of Sciences (CAS), San Francisco, CA; Smithsonian Institution (NMNH), Washington, D.C.; National Museum, Sydney, New South Wales, Australia; CSIRO, Canberra, New South Wales, Australia; University of Canberra, New South Wales, Australia

**Fieldwork:**

Winter 2019: Guyana; Summer 2019: Northern Canada; Summer 2018: Northern Canada; Summer 2018: Northern Canada; January 2017: Australia; January 2016: Guyana; August 2015: Northern Ontario and Quebec; September 2014: Fennoscandia (Sweden, Finland and Norway); May 2012: Ecuador; Winter 2011/12 Guyana; Summer 2011: Guyana; January 2011: Florida; June 2009: Arizona, USA; April 2009: Virginia and Maryland, USA; April 2007: Namibia; July 2006: Kentucky, USA; July 2005: Ottawa/Arnprior, Ontario, Canada; December 2004: Australia; June 2004: Iowa, USA; Oct-Dec 2001: Costa Rica; August 2001: Guyana; August 2001: Barbados; Sept-Nov 1999: Costa Rica