

JAMES P. BERNOT

<https://jimmybernot.com>

NSF Postdoctoral Research Fellow
Smithsonian National Museum of Natural History
Department of Invertebrate Zoology
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Education:

2015–2020 **PhD Genomics and Bioinformatics** George Washington University
Advisor: Dr. Keith Crandall
Dissertation: Parasitic Copepod Evolution
2012–2015 **MS Ecology and Evolutionary Biology** University of Connecticut
Primary advisor: Dr. Janine Caira
Thesis: Taxonomy, Systematics, and Host Associations of Cestodes of Triakid Sharks
2008–2012 **BS Biology** University of Connecticut *summa cum laude*
Advisor: Dr. Janine Caira
Honors thesis: Cestode Morphology as Predicted by Elasmobranch Relationships

Professional Appointments:

2021–2023 **National Science Foundation Postdoctoral Research Fellow**
Smithsonian National Museum of Natural History (primary institution)
Natural History Museum, London
Senckenberg German Center for Marine Biodiversity Research
2015–202 **Research Assistant** George Washington University
Supervisors: Keith Crandall and Hiroki Morizono
2017–2020 **Teaching Assistant** George Washington University. Parasitology
Supervisor: John Hawdon
2012–2015 **Teaching Assistant** University of Connecticut. Animal Parasitology,
Evolutionary Biology, General Ecology, Principles of Biology II

Access to research data:

ORCID ID <http://orcid.org/0000-0002-1769-8631>
Google Scholar <https://scholar.google.com/citations?user=9sa6KNwAAAAJ&hl=en>
Research Gate https://www.researchgate.net/profile/James_Bernot
Publons <https://publons.com/author/1181520/james-p-bernot#profile>

Publications:

2020 **Bernot, J. P.**, Rudy, G., Erickson, P. T., Ratnappan, R., Haile, M., Rosa, B. A., Mitreva, M., O'Halloran, D. M., Hawdon, J. M. (2020). Transcriptomic analysis of hookworm *Ancylostoma ceylanicum* life cycle stages reveals changes in GPCR diversity associated with the onset of parasitism. *International Journal for Parasitology*.
<https://doi.org/10.1016/j.ijpara.2020.05.003>
Boxshall, G. A., **Bernot, J. P.**, Barton, D. P., Diggles, B. K., Yong, R. Q.-Y., Atkinson-Coyle, T., Hutson, K. S. (2020). Parasitic copepods of the family Lernanthropidae Kabata, 1979 (Copepoda: Siphonostomatoida) from Australian fishes, with descriptions of seven new species. *Zootaxa*.
<https://doi.org/10.11646/zootaxa.4736.1.1>

- 2020 Maynard, T., Horvath, A., **Bernot, J. P.**, Karpinski, B., Tavares, A. L. P., Zeng, A. S. Q., Spurr, L., Olender, J., Moody, S. A., Fraser, C. M., LaMantia, A. S., Lee, N. H. (2020). Transcriptional dysregulation in developing trigeminal sensory neurons in the LgDel mouse model of DiGeorge 22q11.2 Deletion Syndrome. *Human Molecular Genetics*. <https://doi.org/10.1093/hmg/ddaa024>
- 2020 Fujiogi, M., Camargo Jr., C. A., **Bernot, J. P.**, Freishtat, R. J., Harmom, B., Mansbach, J. Castro-Nallar, E., Perez-Losada, M., Hasegawa, K. (2020). In infants with severe bronchiolitis: dual-transcriptomic profiling of nasopharyngeal microbiome and host response. *Pediatric Research*. <https://doi.org/10.1038/s41390-019-0742-8>
- 2019 **Bernot, J.P.** and Caira, J. N. (2019). Site specificity and attachment mode of *Symcallio* and *Calliobothrium* species (Cestoda: “Tetracanthoidea”) in smoothhound sharks of the genus *Mustelus* (Carcharhiniformes: Triakidae). *PeerJ*. <http://doi.org/10.7717/peerj.7264>
- Bernot, J.P.** and Boxshall, G. A. (2019). Two new species of parasitic copepods from the genera *Nothobomolochus* and *Unicolax* (Cyclopoida: Bomolochidae) from Australian waters. *PeerJ*. <http://doi.org/10.7717/peerj.6858>
- 2017 Hughes, L.C., Somoza, G.M., Nguyen, B.M., **Bernot, J.P.**, González-Castro, M., Díaz de Astarloa, J.M., and Ortí, G. (2017). Transcriptomic differentiation underlying marine-to-freshwater transitions in the South American silversides *Odontesthes argentinensis* and *O. bonariensis* (Atheriniformes). *Ecology and Evolution*. <http://dx.doi.org/10.1002/ece3.3133>
- Bernot, J.P.** and Boxshall, G.A. (2017). A new species of *Pseudopandarus* Kirtisinghe, 1950 (Copepoda: Siphonostomatoida: Pandaridae) from sharks of the genus *Squalus* L. in New Caledonian waters. *Systematic Parasitology*, 94: 275–291. [10.1007/s11230-016-9692-2](https://doi.org/10.1007/s11230-016-9692-2)
- 2016 **Bernot, J.P.**, Caira, J.N. and Pickering, M. (2016). Diversity, phylogenetic relationships, and host associations of *Calliobothrium* and *Symcallio* (Cestoda: “Tetracanthoidea”) parasitizing triakid sharks. *Invertebrate Systematics*, 30: 616–634. [10.1071/IS15040](https://doi.org/10.1071/IS15040)
- 2015 **Bernot, J.P.**, Caira, J.N. and Pickering, M. (2015). The dismantling of *Calliobothrium* (Cestoda: Tetracanthoidea) with erection of *Symcallio* n. gen. and description of two new species. *The Journal of Parasitology*, 101: 167–181. [10.1645/14-571.1](https://doi.org/10.1645/14-571.1)

Publications submitted or in press

- Bernot, J. P., Avdeyev, P., Zamyatin, A., Alexeev, N., Pérez-Losada, M., Crandall, K. A. (**submitted**). Chromosome-level genome assembly and annotation of the gooseneck barnacle *Pollicipes pollicipes*. 15 pages + 5 figures.
- Haskins, I. N., Wang, B.-D., **Bernot, J. P.**, Horvath, A., Marks, J. H., Lee, N. H., Agarwal, S. (**accepted**). Genomics of Black American Colon Cancer Disparities: An RNA-Seq Study from an Academic, Tertiary Referral Center. *Surgery*. 15 pages + 2 figures.

Grants (totaling \$220,000)

- 2020 NSF Postdoc Research Fellowship (PRFB), Biological Collections. https://www.nsf.gov/awardsearch/showAward?AWD_ID=2010898
- 2020 Cosmos Scholar. Cosmos Club Foundation. “Towards a phylogenomic framework for copepod diversity and evolution.”
- 2017 Edward and Phyllis Reed Fellowship for Copepod Research (Smithsonian NMNH).
- 2017 George Washington University Knowledge in Action Career Internship Fund to work with Dr. Geoff Boxshall at the London Natural History Museum.
- 2016 Society for Systematic Biology Mini-ARTS Grant (Advancing Research in Taxonomy and Systematics).
- 2016 American Museum of Natural History Lerner-Gray Grant for Marine Research.

Awards and Honors

- 2019 Student Travel Award. 14th International Conference on Copepoda. Kruger National Park, South Africa.
- 2019 Student Travel Award. The American Society of Parasitologists Annual Meeting. Rochester, MN.
- 2019 Doctoral student travel award to present at The American Society of Parasitologists Annual Meeting. The Institute for Biomedical Sciences at George Washington University.
- 2019 Student Travel Award. The Crustacean Society mid-year meeting, Hong Kong.
- 2018 American Genetics Association travel grant to attend Invertebrate Genomics Alliance Conference and Workshop (GIGA III). Curacao.
- 2017 Student presentation award. 13th International Conference on Copepoda. Cabrillo Marine Aquarium LA, USA.
- 2017 Student Travel Award. The American Society of Parasitologists Annual Meeting. San Antonio, TX.
- 2016 Honorable Mention, Best Student Presentation Helminthological Society of Washington.
- 2014 Student Travel Award. The American Society of Parasitologists Annual Meeting. New Orleans, LA.
- 2013 Best Student Presentation. New England Association of Parasitologists.
- 2012 Best Student Presentation. Helminthological Society of Washington.
- 2011 Drotch Scholarship, University of Connecticut.

Invited presentations:

- 2020 **Bernot, J. P.** "Copepod taxonomy and phylogeny and a new crustacean phylogenomic analysis." Smithsonian Environmental Research Center. Edgewater, MA, USA. January 16, 2020.
- 2019 **Bernot, J. P.** "Phylogenomics and genome size evolution: exploring the evolution of parasitism in copepods." James Madison University Department of Biology Seminar Series. Harrisonburg, VA, USA. September 6, 2019.
Bernot, J. P., Wyngaard, G. A., Boxshall, G. A., and Crandall, K. C. "Parasitic copepods: diversity, phylogeny, and genome size evolution" The Crustacean Society. Evolution and Ecology of Parasitic and Symbiotic Crustaceans Symposium. Hong Kong. May, 2019.
- 2017 **Bernot, J. P.,** Crandall, K. C., and Boxshall, G. A. "Towards a Synthetic Tree of the Copepoda" 13th International Conference on Copepoda. LA, USA. July 2017.

Conference and seminar presentations:

- 2021 **Bernot, J. P.** "New phylogenomic analyses of the Pancrustacea using tree-based orthology inference" Smithsonian National Museum of Natural History "PhyloPizza" Seminar series. March 23, 2021
Bernot, J. P., Rudy, G. and Hawdon, J. M. "Towards the identification of host receptors in hookworm" California Academy of Sciences Genomics Social Hour. February 17, 2021. [Talk available on YouTube](#).
- 2020 **Bernot, J. P.,** Owen, C. L., Olesen, J., and Crandall, K. A. "A new phylogeny of the Pancrustacea" American Society of Parasitologists "Parasite Hour" Virtual Conference. June, 25 2020.
- 2020 **Bernot, J. P.** "Surprising incongruity in crustacean phylogenomic analyses" No Bones Invertebrate Zoology Seminar. Smithsonian NMNH. April 2020.

- 2019 **Bernot, J. P.**, Wyngaard, G. A., Boxshall, G. A., and Crandall, K. C. “Copepod phylogenomics reveals surprising relationships in the broader Crustacea: insights, intrigue, and patterns of genome size evolution” American Society of Parasitologists. Rochester, MN. June 2019.
- 2018 **Bernot, J. P.** and Crandall, K. C. “Copepod phylogenomics: orthology inference for target-capture marker development” Third Global Invertebrate Genomics Alliance Research Conference. Curaçao. October 2018.
- Bernot, J. P.** and Crandall, K. C. “Get more from publicly available data: ortholog development for target-capture phylogenomics in copepods” American Society of Parasitologists. Cancun, Méx. June 2018.
- Bernot, J. P.**, Boxshall, G. A., and Crandall, K. C. “Copepod phylogeny and systematics: the current state and future directions” 9th International Crustacean Congress. Washington, DC, USA. May 2018.
- 2017 **Bernot, J. P.**, Crandall, K. C., and Boxshall, G. A. “Copepod phylogeny in the Open Tree of Life: estimating the number of transitions to parasitism” No Bones Invertebrate Zoology Seminar. Smithsonian NMNH. Aug. 2017.
- 2017 **Bernot, J. P.**, Crandall, K. C., and Boxshall, G. A. “Evolution of parasitism in copepods: a phylogenetic approach using the Open Tree of Life” American Society of Parasitologists. San Antonio, TX. July 2017.
- Bernot, J. P.** and Crandall, K. C. “The Open Tree of Life: integrations with WoRMS” WoRMS Host-Parasite Databasing Workshop. Flanders Marine Institute, Oostende, Belgium. April 2017.
- 2016 **Bernot, J. P.** and Boxshall, G. A. “A new species of *Pseudopandarus* (Copepoda: Siphonostomatoida; Pandaridae) from sharks of the genus *Squalus* in New Caledonian waters” International Workshop on Symbiotic Copepoda. James Cook University, Australia. July 2016.
- Bernot, J. P.**, Rosa, B. A., Mitreva, M., and Hawdon, J. M. “Utility of genomic and RNA-Seq data sets to identify putative host recognition receptors in hookworms” Helminthological Society of Washington. George Washington University, Washington, DC. April 2016.
- 2015 **Bernot, J. P.** and Caira J. N. “Tapeworms in *Mustelus* spp. in the Atlantic: from 1819–2015” UConn Graduate Student Symposium. University of Connecticut. Storrs, CT. March 2015.
- 2014 **Bernot, J. P.**, Caira, J. N., and Pickering-Villa, M. “*Calliobothrium* (Cestoda: Tetraphyllidea) in *Mustelus* (Carcharhiniformes: Triakidae) of the Atlantic Ocean” American Society of Parasitologists. New Orleans, LA. July 2014.
- Bernot, J. P.**, Caira, J. N., and Pickering-Villa, M. “Shark Tapeworms: why do they live where they live? UConn Graduate Student Symposium” University of Connecticut. Storrs, CT. March 2014.
- 2013 **Bernot, J. P.** and Caira, J. N. “Site Specificity of Tapeworms of the genus *Calliobothrium* in the spiral intestine of Smoothhound Sharks (Carcharhiniformes: Triakidae)” American Society of Parasitologists. Quebec City, Canada. June 2013.
- Bernot, J. P.** and Caira, J. N. “Site Specificity of Tapeworms of the Genus in the Spiral Intestine of Smoothhound Sharks (Carcharhiniformes: Triakidae). New England Association of Parasitologists” Yale University. New Haven, CT. April 2013.
- 2012 **Bernot, J. P.**, Caira, J. N., and Pickering, M. “David and Goliath: examination of additional complexity in the genus *Calliobothrium* (Cestoda: Tetraphyllidea) in smoothhound sharks of the genus *Mustelus* (Carcharhiniformes: Triakidae)” American Society of Parasitologists. Richmond, VA. July 2012.

- Bernot, J. P.**, Caira, J. N., and Pickering, M. “Cestode morphology as predicted by elasmobranch relationships: *Calliobothrium* in smooth hound sharks of the genus *Mustelus*” Helminthological Society of Washington. Quinnipiac University. Hamden, CT. April 2012.
- 2011 **Bernot, J. P.**, Caira, J. N., and Pickering, M. “Cestode morphology as predicted by elasmobranch relationships: *Calliobothrium* in smooth hound sharks of the genus *Mustelus*” New England Association of Parasitologists. Salve Regina University. Newport, RI. Nov. 2011.
- Bernot, J. P.**, Caira, J. N., and Pickering, M. “Cestode morphology as predicted by elasmobranch relationships: *Calliobothrium* in smooth hound sharks of the genus *Mustelus*” 7th International Workshop on Cestode Systematics. University of Kansas. Lawrence, KS. July 2011.
- Bernot, J. P.**, Caira, J. N., and Pickering, M. “Cestode morphology as predicted by elasmobranch relationships: *Calliobothrium* in smooth hound sharks of the genus *Mustelus*” American Society of Parasitologists. Anchorage, AK. June 2011.

Science Engagement and Outreach:

- 2021 Cowrote WoRMS article “Ten remarkable new marine species from 2020” for Taxonomists Appreciation Day to draw public attention and press coverage to taxonomic research. March 19, 2021.
<https://lifewatch.be/en/ten-remarkable-new-marine-species-2020>
- 2021 [Skype A Scientist LIVE](#) event. Virtual live Q&A and introduction to marine plankton and parasites with >200 attendees. March 10, 2021. Video recording posted to Youtube: <https://youtu.be/6-57CouBfMk>
- 2021 Interviewed and supplied photographs for Snopes article on cymothoid isopods and fish tongue replacement. March 5, 2021.
<https://www.snopes.com/fact-check/parasite-fish-tongue-mouth/>
- 2021 Cowrote article “7 Ocean Parasites Worth Celebrating on World Parasite Day” on Smithsonian Ocean Portal website. March 2, 2021.
<https://ocean.si.edu/ocean-life/7-ocean-parasites-worth-celebrating-world-parasite-day>
- 2021 Smithsonian NMNH social media takeover for World Parasite Day. Wrote posts for Smithsonian NMNH Twitter, Instagram, and Facebook.
<https://twitter.com/NMNH/status/1366410398178578437?s=20>
- 2021 Zoom virtual meeting with 5th grade class for World Parasite Day. Mableton Elementary School, Mableton, GA. March 4, 2021.
- 2021 Podcast on copepod adaptations with [Just the Zoo of Us](#) episode 86 – an animal diversity podcast. Feb. 24, 2021.
- 2021 Skype a Scientist. Met with 3 4th grade class for marine biology lesson and Q&A. Hampstead Hill Academy, Baltimore, MD. Feb. 18, 2021.
- 2021 Panel discussion on hermaphroditic life on [Exolore Podcast](#) episode 23, a podcast featuring scientists, historians, psychologists that discuss biological and sociological implications of sci-fi worlds. Feb. 11, 2021.
- 2021 Interviewed on [LGBTQ+ STEMCast](#), a podcast featuring LGBTQ+ scientists. January 4, 2021.
- 2020+ Co-manages the [World Association of Copepodologists](#) Official Twitter account [@copepodology](#).
- 2020 Skype a Scientist. Met with 5th grade class for marine biology lesson and Q&A. The Leffell School, White Plains, NY. June 16, 2020.
- 2020 Skype a Scientist. Met with 4th grade class for marine biology lesson and Q&A. Hampstead Hill Academy, Baltimore, MD. June 5, 2020.

- 2020 Authored blog post for [WeRepSTEM](https://werepstem.com/2020/07/03/profile-james-jimmy-bernot-ph-d-candidate-in-genomics-bioinformatics-nsf-postdoc-research-fellow-in-biological-collections/), a diversity in STEM blog.
<https://werepstem.com/2020/07/03/profile-james-jimmy-bernot-ph-d-candidate-in-genomics-bioinformatics-nsf-postdoc-research-fellow-in-biological-collections/>
- 2020 Presented on parasite biology to an auditorium of >70 8th graders for “World Parasite Day”. Imagine Foundations at Morningside Public Charter School. Prince George’s County, MD. March 6, 2020.
- 2020 Interviewed for [PhDetails](http://phdetails.blogspot.com/2020/01/83-jimmy-bernot.html) blog on graduate student life.
<http://phdetails.blogspot.com/2020/01/83-jimmy-bernot.html>
- 2019 Scientist representative for Smithsonian Natural History Museum “Congressional Science Night”. Invited by Smithsonian Department of Invertebrate Zoology to discuss science, research, and collections with members of Congress, their families, and their staff at a special event for science engagement with Congress. July 17, 2019.
<https://twitter.com/JimmyBernot/status/1151639577746169856>
- 2019 Guest speaker on parasite biology, research, and career options at Temple High School in Arizona on Parasite Day. Video call, presentation, and Q&A for 12th grade science classes x2. March 4, 2019.
- 2018 “Computational Biology” Discussed research in the Computational Biology Institute in Introduction to Medicine, a college-level course for high school students. George Washington University. July 3, 2018.
- 2018 Crustacean scientist, ocean hall Invertebrate Zoology Department public outreach. Crustacean specimen displays and Q&A. Smithsonian NMNH. April 5, 2018.
- 2016 Meet-a-scientist “Ocean Expert” for World Ocean Day at Smithsonian NMNH. “Copepods: what reefs eat, and what is eating them.” Topic included: food webs, invertebrate diversity, specimen display, Q&A. Smithsonian NMNH. June 8, 2016.
- 2016 Served as expert for live Q&A on parasites in Smithsonian “ScienceHow?” Webcast. Broadcast designed to meet middle school science curriculum. Online attendance >2,000 students. Smithsonian NMNH. May 19, 2016.
- 2016 Interviewed for BBC documentary on CRISPR-CAS9 and research ethics. George Washington University. Washington, DC. April 19, 2016.
- 2016 Photographer for Smithsonian Insider article: [In face of mass extinctions, Smithsonian’s Global Genome Initiative quietly saves world’s DNA](#). April 5, 2016.
- 2015 Prepared specimens and worked with a photographer to design an exhibit on tapeworms in the Connecticut State Natural History Museum
- 2014 Consulted with Gene Helfman and George Burgess on [Sharks: The Animal Answer Guide](#).
- 2014 Designed and presented a curriculum on parasites for 1st and 4th grade students. Franklin Elementary School Franklin, CT.
- 2013 Designed and presented a curriculum on parasites for 3rd and 4th grade students. Franklin Elementary School Franklin, CT.

Teaching experience:

Instructor on record:

2015 Spring	Current Topics in Ecology and Evolution	University of Connecticut
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Teaching assistant:

2020 Fall	Parasitology (laboratory)	George Washington University
2019 Fall	Parasitology (laboratory)	George Washington University
2018 Fall	Parasitology (laboratory)	George Washington University
2017 Fall	Parasitology (laboratory)	George Washington University
2016 Fall	Parasitology (laboratory)	George Washington University
2015 Spring	Evolutionary Biology	University of Connecticut

2014 Fall	Animal Parasitology (laboratory)	University of Connecticut
2014 Spring	Evolutionary Biology	University of Connecticut
2013 Fall	General Ecology (discussion)	University of Connecticut
2013 Spring	Principles of Biology II (laboratory)	University of Connecticut
2012 Fall	Principles of Biology II (laboratory)	University of Connecticut

Other courses taught:

2017–present	Bimonthly informatics tools training courses	George Washington University
Feb. 2014	Dental Admissions Test Prep Course	University of Connecticut
	Designed curriculum and led intensive 7-hour review sessions of Biological Science material on the Dental Admissions Test for undergraduates.	
March 2013	Dental Admissions Test Prep Course	University of Connecticut

Teaching training

Fall 2019	UNIV 0250 Graduate Assistant Certification Course (1 credit).	George Washington University
Fall 2013	EDCI 5830 Fundamentals of Teaching and Learning (3 credits).	University of Connecticut.
Spring 2013	EEB 5830 Teaching Methods (1 credit).	University of Connecticut.

Lectures in other courses

2020	“My experience with parasites: a clinical trial for a hookworm vaccine” in Problematic Progress in Parasitology. Creighton University School of Medicine.	
	“Crustacean diversity and current topics in crustacean research” in Animal Diversity. Meredith College, NC.	
2019	“Parasitic crustacean diversity and evolution” in Parasitology. George Washington University, Washington, DC.	
	“Biology and art in the description of species” in Biology and Art. James Madison University, VA.	
2018	“The parasitic Crustacea” in Parasitology. George Washington University	
2017	“Parasitic copepods” in Parasitology. George Washington University.	
2015	“Genetic conflict and levels of selection” in Evolutionary Biology. University of Connecticut.	
2014	“Parasitic copepods: economically important species, evolutionary trends, and life-cycle modifications” in Introduction to Animal Parasitology. University of Connecticut.	
2014	“Levels of selection (multilevel selection theory)” in Evolutionary Biology. University of Connecticut.	
2013	“Opening a can of worms: tapeworms of elasmobranchs” in Topics in Modern Biology. University of Connecticut.	
2012	“Opening a can of worms: my experience with parasites” in Topics in Modern Biology. University of Connecticut.	

Mentorship

2019	Gabriella Ruby. George Washington University. Undergraduate student and Masters student in lab of Dr. John Hawdon. Project: Differential GPCR expression across life stages of the hookworm <i>Ancylostoma ceylanicum</i> . Coauthor on publication.
2017-18	Chaimae Samtal. George Washington University. Visiting Fullbright PhD student with Dr. Keith Crandall. Research project: Prostate cancer genetics in Moroccan men.

Professional service:***Appointments:***

- 2015-present Research fellow. Smithsonian National Museum of Natural History
Department of Invertebrate Zoology
- 2017-present Taxonomic editor World Registry of Marine Species (WoRMS)
Copepoda and Parasite Portal
WoRMS Top-Ten Species committee (2019, 2020)
Participant: WoRMS Image Group (2020)
- 2017-2020 REDCap system administrator and trainer. CTSI-CN: A Partnership
between Children's National Medical Center and GWU
- 2015 Member of graduate student symposium committee. University of
Connecticut
- 2015 Graduate student representative to Ecology & Evolutionary Biology faculty.
University of Connecticut
- 2014 Graduate Student Representative to Ecology & Evolutionary Biology faculty.
University of Connecticut

Membership and service in professional societies:

- 2011-present American Association of Parasitologists
Appointed to:
Awards Committee (2018, 2019)
Resolutions Committee (2018, 2019)
Committee on diversity, equity, and inclusion (2019)
Local Organizing Committee, Baltimore Meeting (2021 meeting
rescheduled to 2024)
- 2021 Helminthological Society of Washington
Committee on diversity, inclusion, and discrimination policies (2021)
Founding Committee for Underrepresented Minorities Research
Award (2021)
- 2017-present The World Association of Copepodologists
Appointed to:
Manage society's Twitter account [@copepodology](https://twitter.com/copepodology)
- 2016-present AAAS
- 2016-present Society of Systematic Biologists
- 2018-present The Crustacean Society
- 2018-present Global Invertebrate Genomics Alliance (GIGA)

Other professional service:

- 2019 Organized Ensembl Workshop "Browsing Genes and Genomes" at GWU.
- 2018 Panel member for GWU undergraduate Q&A on graduate
school and research experience. GWU November 27, 2018.
- 2016 Institute for Biomedical Sciences Curriculum Committee. GWU June 2016.
- 2015 Master of ceremonies: Graduate Student Symposium. University of
Connecticut
- 2014 Designed Ecology & Evolutionary Biology departmental logo.
University of Connecticut.
- 2014 Designed Ecology & Evolutionary Biology departmental Tshirt and banner.
Managed Tshirt sales to raise funds for the Ecology & Evolutionary
Biology Graduate Student Association. University of Connecticut

Reviewer for scientific journals:

2020	Journal of Natural History
2019	Molecular Biology and Evolution Parasitology Research Parasite The Biological Bulletin (x2) Journal of Applied Ichthyology
2018	Parasitology Research Molecular Phylogenetics and Evolution
2017	Scientific Reports
2017	Molecular Phylogenetics and Evolution (x2) Comparative Parasitology PeerJ
2016	PeerJ Neotropical Biodiversity
2015	African Journal of Marine Science

Advanced Training and Workshops:

2016	Workshop on Molecular Evolution. University of Chicago Marine Biological Laboratory. Woods Hole, MA.
2016	Smithsonian Target Enrichment/Bait Capture Workshop. Smithsonian Museum of Natural History. Washington, DC.
2016	3 rd International Workshop on symbiotic Copepoda. Heron Island, Australia.
2016	OVPR Grant Writing Workshop: Keys to Successful Grant Writing. George Washington University. Washington, DC.
2015	Practical Computing for Biologists. University of Washington. Friday Harbor Labs. Friday Harbor, WA.
2014	International Workshop on Cestode Systematics and Phylogeny. Universidade de São Paulo. Sao Sebastiao, Brazil.
2011	International Workshop on Cestode Systematics. University of Kansas. Lawrence, KS.

Field work experience:

Oct. 2018	Panama: 10-day survey of parasitic copepods of reefs in Coiba National Park with Smithsonian Tropical Research Institute.
Aug. 2018	New York: 2-week survey of freshwater planktonic and parasitic copepods. SUNY Oneonta Biological Field Station.
June 2016	Australia: 2-week survey of commercial fish parasites as part of ABRS grant (PI Tom Cribb, University of Queensland). Fish collection (spear fishing and line and reel), fish dissection, parasite identification.
May 2014	Connecticut: survey of shark tapeworms of Long Island Sound, CT, USA.
Aug. 2013	United Kingdom: 10-day collection of tapeworms of sharks and rays off the coast of Lowestoft, England.
Jan. 2013	Chile: 3-week collection of tapeworms of sharks and rays off of central Chilean coastline. Field sites included: Huinay Field Station, Puerto Montt, and Valdivia.
May 2012	Peru: Tropical Field Biology Course by SUNY Oneonta in Manu National Park. Invertebrate diversity bio-blitz and leaf cutter ant field experiments.

Other Contributions:

- 2018 Contributed photos to Operating a Successful Cryopreservation Facility. James Bennet. 2018. Planer plc (Publisher).
- 2018, 2019 Graduate student mentor in Columbian College of Arts and Sciences international graduate student buddy program. George Washington University.
- 2017 Contributed a figure to Science Magazine article *Biologists propose to sequence the DNA of all life on Earth*. <https://doi.org/10.1126/science.aal0824>
- 2012-present Contributed to the population of the Global Cestode Database as part of NSF PBI Nos. 0818696 and 0818823. Serve as a taxonomic authority on *Symcallio* and *Calliobothrium*. <http://tapewormdb.uconn.edu>
- 2011–2015 Consulted with Janine Caira and Kirsten Jensen in designing a children's book on tapeworms, Meet the Suckers as part of NSF PBI No. 0818823. University of Connecticut.