# JAMES P. BERNOT

 $\underline{https://BernotLab.org}$ 

**Assistant Professor** 

Department of Ecology & Evolutionary Biology

University of Connecticut james.bernot@uconn.edu

# PROFESSIONAL APPOINTMENTS

Aug. 2024	Assistant Professor
-	Department of Ecology & Evolutionary Biology
	University of Connecticut, Storrs
021–2024	National Science Foundation Postdoctoral Research Fellow
	Smithsonian National Museum of Natural History
	Advisor: Anna Phillips
022-2023	Visiting Postdoctoral Fellow (13 months)
	Natural History Museum, London
	Advisor: Geoff Boxshall
022-2023	Visiting Postdoctoral Fellow (8 months)
	Senckenberg German Center for Marine Biodiversity Research
	Advisor: Pedro Martínez-Arbizu
015-present	Research Fellow Smithsonian National Museum of Natural History
2015–2020	<b>Research Assistant</b> George Washington University. Clinical & Translational Science Institute. Informatics support and training.

#### **EDUCATION**

PhD Genomics and Bioinformatics George Washington University
Dissertation: Parasitic Copepod Evolution
Advisor: Keith Crandall
MS Ecology & Evolutionary Biology University of Connecticut
Thesis: Taxonomy, Systematics, and Host Associations of Cestodes of Triakid Sharks
Advisor: Janine Caira
BS Biology University of Connecticut summa cum laude
Thesis: On the Cestode Genus Calliobothrium and Their Triakid Shark Hosts
Advisor: Janine Caira

# ACCESS TO RESEARCH DATA

ORCID ID	http://orcid.org/0000-0002-1769-8631
Google Scholar	https://scholar.google.com/citations?user=9sa6KNwAAAAJ&hl=en
Web of Science	https://www.webofscience.com/wos/author/record/395421
Research Gate	https://www.researchgate.net/profile/James_Bernot

# **PUBLICATIONS**

(19) **Bernot JP**, Boxshall GA, Cristina Kahara T, Martínez Arbizu P. (*accepted*). An updated key to the genera of Caligidae (Copepoda: Siphonostomatoida). *Journal of Parasitology*. 20 pages + 6 figures.

<sup>\*</sup> denotes undergraduate/graduate student mentees

- (18) **Bernot JP,** Boxshall GA Goetz FE, Phillips AJ. (2024). MicroCT illuminates the unique morphology of Shiinoidae (Copepoda: Cyclopoida), an unusual group of fish parasites. *PeerJ* 12:e16966 <a href="https://doi.org/10.7717/peerj.16966">https://doi.org/10.7717/peerj.16966</a>
- (17) Ismail N, Nishida Y, Ohtsuka S, Boxshall G, **Bernot JP.** (2024). First record of *Caligus dussumieri* Rangnekar, 1957 (Copepoda, Siphonostomatoida, Caligidae) from Malaysia, with notes on caligids found from Malaysia and on host-specificity of caligids on lutjanid fishes. *Biodiversity Data Journal*. 12: e116598. <a href="https://doi.org/10.3897/BDJ.12.e116598">https://doi.org/10.3897/BDJ.12.e116598</a>
- (16) Boxshall GA, **Bernot JP**. (2023). Resolving taxonomic and nomenclatural problems in the genus *Caligus* O.F. Müller, 1785 (Copepoda: Caligidae). *Zootaxa*. <a href="https://doi.org/10.11646/ZOOTAXA.5360.4.5">https://doi.org/10.11646/ZOOTAXA.5360.4.5</a>
- (15) **Bernot JP**, Owen CL, Wolfe JM, Meland K, Olesen J, Crandall KA. (2023). Major revisions in pancrustacean phylogeny and evidence of sensitivity to taxon sampling. *Molecular Biology and Evolution*. https://doi.org/10.1093/molbev/msad175
- (14) Hawdon JM, **Bernot JP.** (2022). Teaching Parasitology Lab Remotely using Live Streaming. *The American Biology Teacher*. <a href="https://doi.org/10.1525/abt.2022.84.5.312">https://doi.org/10.1525/abt.2022.84.5.312</a>
- (13) **Bernot JP**, Avdeyev P, Zamyatin A, Alexeev N, Dreyer N\*, Pérez-Losada M, Crandall KA. (2022). Chromosome-level genome assembly, annotation, and phylogenomics of the gooseneck barnacle *Pollicipes pollicipes*. *GigaScience*. <a href="https://doi.org/10.1093/gigascience/giac021">https://doi.org/10.1093/gigascience/giac021</a>
- (12) **Bernot JP,** Boxshall GA, Crandall KA. (2021). A synthesis tree of the Copepoda: integrating phylogenetic and taxonomic data reveals multiple origins of parasitism. *PeerJ*. <a href="https://doi.org/10.7717/peerj.12034">https://doi.org/10.7717/peerj.12034</a>
- (11) Haskins IN, Wang B-D., **Bernot JP**, Cauley EC\*, Horvath A, Marks JH, Lee NH, Agarwal S. (2021). Genomics of Black American Colon Cancer Disparities: An RNA-Seq Study from an Academic, Tertiary Referral Center. *Surgery*. <a href="https://doi.org/10.1016/j.surg.2021.03.031">https://doi.org/10.1016/j.surg.2021.03.031</a>
- (10) **Bernot JP**, Rudy G\*, Erickson PT, Ratnappan R, Haile M, Rosa BA, Mitreva M, O'Halloran DM, Hawdon JM. (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*. <a href="https://doi.org/10.1016/j.ijpara.2020.05.003">https://doi.org/10.1016/j.ijpara.2020.05.003</a>
- (9) Boxshall GA, **Bernot JP**, Barton DP, Diggles BK, Yong RQ-Y., Atkinson-Coyle T, Hutson KS. (2020). Parasitic copepods of the family Lernanthropidae Kabata, 1979 (Copepoda: Siphonostomatoida) from Australian fishes, with descriptions of seven new species. *Zootaxa*. <a href="https://doi.org/10.11646/zootaxa.4736.1.1">https://doi.org/10.11646/zootaxa.4736.1.1</a>
- (8) Maynard T, Horvath A, **Bernot JP**, Karpinksi B, Tavares ALP, Zeng ASQ, Spurr L, Olender J, Moody SA, Fraser CM, LaMantia AS, 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
- (7) Fujiogi M, Camargo Jr CA, **Bernot JP**, Freishtat RJ, 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*. <a href="https://doi.org/10.1038/s41390-019-0742-8">https://doi.org/10.1038/s41390-019-0742-8</a>
- (6) **Bernot JP**, Caira JN. (2019). Site specificity and attachment mode of *Symcallio* and *Calliobothrium* species (Cestoda: "Tetraphyllidea") in smoothhound sharks of the genus *Mustelus* (Carcharhiniformes: Triakidae). *PeerJ*. http://doi.org/10.7717/peerj.7264
- (5) **Bernot JP,** Boxshall GA. (2019). Two new species of parasitic copepods from the genera *Nothobomolochus* and *Unicolax* (Cyclopoida: Bomolochidae) from Australian waters. *PeerJ*. <a href="http://doi.org/10.7717/peerj.6858">http://doi.org/10.7717/peerj.6858</a>

- (4) Hughes LC, Somoza GM, Nguyen BM, **Bernot JP**, González-Castro M, Díaz de Astarloa JM, 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*. <a href="http://dx.doi.org/10.1002/ece3.3133">http://dx.doi.org/10.1002/ece3.3133</a>
- (3) **Bernot JP**, Boxshall GA. (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. https://doi.org/10.1007/s11230-016-9692-2
- (2) **Bernot JP**, Caira JN, Pickering M. (2016). Diversity, phylogenetic relationships, and host associations of *Calliobothrium* and *Symcallio* (Cestoda: "Tetraphyllidea") parasitizing triakid sharks. *Invertebrate Systematics*, 30: 616–634. https://doi.org/10.1071/IS15040
- (1) **Bernot JP**, Caira JN, Pickering M. (2015). The dismantling of *Calliobothrium* (Cestoda: Tetraphyllidea) with erection of *Symcallio* n. gen. and description of two new species. *The Journal of Parasitology*, 101: 167–181. <a href="https://doi.org/10.1645/14-571.1">https://doi.org/10.1645/14-571.1</a>

#### Publications submitted or under review

- **Bernot JP,** Khodami S, Boyen J, De Troch M, Boxshall GA, Martínez Arbizu P. (*in revision*) Copepod phylogenomics supports Canuelloida as a valid order separate from Harpacticoida. 14 pages + 2 figures.
- Deets GB, Boxshall GA, **Bernot JP**. (*in review*) A systematic revision of *Kroyeria* (Copepoda: Siphonostomatoida): four new species, twelve redescriptions, and a morphological phylogenetic analysis of the genus. 65 pages + 40 figures.
- Boxshall GA, Nagasawa K, **Bernot JP**. (*in review*) The male of *Dinemoleus indeprensus* Cressey & Boyle, 1978 with a brief overview of sexual dimorphism in the family Pandaridae (Copepoda: Siphonostomatoida). 11 pages + 4 figures.

# GRANTS (totaling \$298,800)

- NSF Postdoc Research Fellowship (PRFB) supplemental 1-year COVID extension (\$69,000, 1 year)
- NSF Postdoc Research Fellowship (PRFB), Biological Collections. (\$207,000, 3 years) <a href="https://www.nsf.gov/awardsearch/showAward?AWD\_ID=2010898">https://www.nsf.gov/awardsearch/showAward?AWD\_ID=2010898</a>
- 2020 Smithsonian NMNH Peter Buck Postdoctoral Fellowship (\$130,000, 2 years, declined for 3 year NSF PRFB).
- 2020 Cosmos Scholar. Cosmos Club Foundation. "Towards a phylogenomic framework for copepod diversity and evolution." (\$3,315)
- 2017 Edward and Phyllis Reed Fellowship for Copepod Research (Smithsonian NMNH). (\$8,500)
- 2017 George Washington University Knowledge in Action Career Internship Fund to spend a semester working at the London Natural History Museum with Geoff Boxshall. (\$3,000)
- 2016 Society for Systematic Biology Mini Advancing Research in Taxonomy and Systematics Grant. (\$1,000)
- 2016 American Museum of Natural History Lerner-Gray Grant for Marine Research. (\$2,000)
- 2011 Paul L. Drotch Award in undergraduate Biology, University of Connecticut. (\$5,000)

# **AWARDS AND HONORS**

- 2023 Ashton Cuckler New Investigator Award. American Society of Parasitologists. Kansas City, MO.
- 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. 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 Outstanding student presentation award. 13<sup>th</sup> 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.

# **MENTORSHIP**

2021-present	Felix Javier Berrios Ortega. PhD student. Previously mentored as undergraduate at Universidad
	de Puerto Rico Humacao. Mentoring and proposal review for: NSFGRFP (awarded), Doris
	Dukes Conservation Scholars Fellowship (awarded); Ecological Society of America SEEDS
	Fellowship (award declined); Louis Stokes Alliance for Minority Participation PR-LSAMP
	(awarded); and three others.
2024-present	Netanya Williams. Masters student working on taxonomy and systematics of
	Pseudotaeniacanthus. Teaching Assistant for Invertebrate Zoology (EEB 4275) Fall 2024.
2021-2023	Niklas Dreyer. First as PhD student at Academia Sinica (Taiwan) studeying facetotecta diversity,
	later as postdoc at Harvard working on invertebrate phylogenomics. Mentoring on
	bioinformatics and genomics. Proposal review for two postdoc fellowships. Coauthors on
	Bernot et al. (2022) and Dreyer et al. (in review).
2019	Gabriella Ruby. George Washington University. Undergraduate student and Masters
	student in lab of John Hawdon. Project: Differential GPCR expression across life stages of
	the hookworm Ancylostoma ceylanicum. Coauthor on Bernot et al. (2020). Currently
	Bioinformatics Project Manager at QIAGEN.
2018-19	Graduate student mentor in Columbian College of Arts and Sciences international graduate
	student buddy program. George Washington University.
2017-18	Chaimae Samtal. Visiting Fulbright PhD student at George Washington University from Sidi
	Mohamed Ben Abdellah University. Research project: Prostate cancer genetics in Moroccan
	men. Mentoring in genomics and computational biology.
2016-17	Edmund Cauley. Masters student at George Washington University. Mentoring in
	bioinformatics and genomics. Coauthor on Haskins et al. (2021).
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# **Mentoring and Career Progression**

2024	CIMER Mentoring Training. 8 hours of mentoring training through UConn Graduate School.
2024	Panel Member for "Expand Your Career Options: Postdoc Pathways". UConn Center for Career
	Development. March 21.
2022	Panel Member for "Career Conversations". Institute for Biomedical Sciences, GWU. Dec. 2.
2021	Panel member "Going to Graduate School" NMNH Natural History Research Experiences intern
	course (NSF REU). July 30.
2021	Panel member: "Career Conversations". Smithsonian NMNH Summer Internship Program. June 21
2018	Panel member for undergraduate Q&A on graduate school. GWU Nov. 18.

# TEACHING EXPERIENCE

# Instructor of record:

2024 Fall	Invertebrate Zoology	University of Connecticut
2015 Spring	Current Topics in Ecology and Evolution	University of Connecticut

# Other courses taught:

Invited instructor for two-week NSF-funded <u>Meiofauna Diversity Workshop</u> at the University of Alabama Dauphin Island Research Lab.

2022	Designed and taught a seven-day practical introduction to computational biology focused on transcriptomic analysis in an HPC environment.
	https://bitbucket.org/JBernot/senck bioinformatics workshop/src/master/
2017-2020	Designed and led bimonthly clinical research informatics training courses for
	REDCap (Research Electronic Data Capture) and ResearchMatch tools.
	George Washington University.
2020	Designed self-paced online REDCap training with automated registration, tutorial videos, and
	online quiz for CTSI-CN: a partnership with Children's National Hospital and
	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 pedagogy training

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Fall 2019	UNIV 0250 Graduate Teaching Assistantship Program (1 credit). George Washington University	
Fall 2013	EDCI 5830 Fundamentals of Teaching and Learning (3 credits). UConn.	
Spring 2013	EEB 5830 Teaching Methods (1 credit). UConn.	

#### MUSEUM AND COLLECTIONS EXPERIENCE

- Specimen identification, new species descriptions, redescriptions, evaluation of types, and deposition of type specimens. Deposited holotypes/neotypes of 8 species at the following museums (NMNH, NHM London, Queensland Museum, South African Museum Cape Town, Museum National d'Histoire Naturelle).
- Museum Appointments: NMNH Research Fellow (2015+); NMNH Creative Council for Communications (2022); visiting postdoc NHM London (2022–2023); visiting predoc NHM London (2015, 2017)
- Scientific visitor at: NHM Denmark, NHM Geneva, CEFAS UK, STRI, Senckenberg, NHM Hamburg
- Collections management: organization and inventory of specimens (NMNH and UConn)

# Collection digitization and taxonomic databasing

2022-present	World Registry of Marine Species (WoRMS) Steering Committee (elected, 2022–2025)
2017-present	Taxonomic editor in WoRMS for Copepoda
2015	Prepared specimens and worked with <u>MacroscopicSolutions</u> to design an exhibit
	on tapeworms in the Connecticut State Natural History Museum.
2012-16	Contributed to the population of the Global Cestode Database as part of NSF PBI
	Nos. 0818696 and 0818823. Taxonomic authority on Symcallio and Calliobothrium.
	http://tapewormdb.uconn.edu

#### Advanced training in museum collections

- "Beyond Specimens" American Institute of Biological Sciences Meeting. Washington, DC. Dec. 19, 2019.
- "Introduction to Natural History Collections" 1 credit graduate seminar at UConn Biodiversity Research Collections. Invertebrate, and vertebrate specimen preservation, mounting/pining insects, and collections management. Spring 2015.
- "The International Code of Zoological Nomenclature" 1 credit graduate seminar at UConn. Spring 2013.

#### INVITED PRESENTATIONS

- Bernot, J. P. "Copepod phylogenomics with a target-enrichment probe set for 100's of genes across all copepods" 15<sup>th</sup> International Conference on Copepoda, Hiroshima, Japan. June 3, 2024.
- 2023 Bernot, J. P. "Parasitic Copepod Evolution & Pancrustacean Phylogeny" University of Maryland Behavior, Ecology, Evolution, and Systematics Seminar Series. College Park, MA. Dec. 4, 2023.

- Bernot, J. P. "Insights into the phylogeny and development of barnacles from the first stalked barnacle genome (*Pollicipes pollicipes*)" Smithsonian NMNH Invertebrate Zoology Departmental Seminar. Sept 27, 2022.
- 2022 Bernot, J. P. "Parasitic Copepod Evolution" Senckenberg am Meer Research Colloquium. June 15, 2022.
- 2022 Bernot, J. P. "The Evolution of Parasitism in Copepods" Leibnitz Institute for the Analysis of Biodiversity Change Colloquium. Hamburg, Germany. March 28, 2022.
- Bernot, J. P. "The genome of the gooseneck barnacle (*Pollicipes pollicipes*) provides insights into the evolution and development of barnacles" Dovetail Genomics Genomes of Animals and Plants Conference (GAP 2022). Virtual. Feb 16, 2022.

  Talk available at: https://vimeo.com/680523159
- 2021 Bernot, J. P. "Parasite Evolution" Smithsonian NMNH All-Science meeting. Virtual. Sept 8, 2021.
- 2021 Bernot, J. P. "Parasitology methods looking forward: genomics, phylogenomics, Iso-Seq, single-cell RNA-Seq, and spatial transcriptomics" American Society of Parasitologists Student Symposium. Virtual. July 27, 2021.
- 2021 Bernot, J. P. "Science Careers and Science Engagement" Rutgers Wildlife Society Student Chapter. Virtual. April 16, 2021
- 2021 Bernot, J. P. "New phylogenomic analyses of the Pancrustacea using tree-based orthology inference" Smithsonian NMNH PhyloPizza Seminar series. Virtual. 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. Virtual. Feb 17, 2021.

  Talk available on YouTube.
- 2020 Bernot, J. P. "Copepod taxonomy and phylogeny and a new crustacean phylogenomic analysis" Smithsonian Environmental Research Center. Edgewater, MD, USA. Jan 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. Sept 6, 2019.
- 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 28, 2019.
- 2017 Bernot, J. P., Crandall, K. C., and Boxshall, G. A. "Towards a Synthetic Tree of the Copepoda" 13<sup>th</sup> International Conference on Copepoda. LA, USA. July 21, 2017.

# **CONFERENCE AND SEMINAR PRESENTATIONS**

- 2023 Bernot JP and Boxshall GA. "Taxonomy, systematics, and new keys for *Caligus* (Copepoda: Caligidae) illuminated by confocal laser scanning microscopy". American Society of Parasitologists. Kansas City, MO. July 16, 2023.
- 2022 Bernot, J. P. "Multiple Evolutions of Parasitism in Copepods". 15<sup>th</sup> International Congress on Parasitology. Copenhagen, DK. Aug 24, 2022.
- Bernot, J. P. "The evolution of parasitism in copepods: phylogeny, diversity, and morphology". 5<sup>th</sup> International Conference on Invertebrate Morphology. Vienna, Austria. Aug 10, 2022.
- Bernot, J. P. "Towards an AHE probe set for copepod phylogenomics". International Conference on Copepoda virtual meeting. July 30, 2022.
- Bernot, J. P. and Boxshall, G. A. "How many origins of parasitism in copepods? A new count with a review of the evidence from phylogenetics, morphology, and natural history" American Society of Parasitologists virtual meeting. July 26, 2021.
- 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" Smithsonian NMNH Invertebrate Zoology Departmental Seminar. 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. Curação. Oct 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" 9<sup>th</sup> 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" Smithsonian NMNH Invertebrate Zoology Departmental Seminar. 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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*" 7<sup>th</sup> International Workshop on Cestode Systematics. University of Kansas. Lawrence, KS. July 2011.
- 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

2020-present	Social Media Coordinator for World Association of Copepodologists. Manages Society Twitter
	account @copepodology and Facebook https://www.facebook.com/Worldcopepodologists/
2020-present	Skype A Scientist. 16 virtual meetings with K-12 students at a variety of schools for marine
	biology lessons and Q&A:
	4th graders at Hampstead Hill Academy, Baltimore, MD (3x/year 2020–2022)
	12 <sup>th</sup> graders at Staples High School, Westport, CT (2022)
	K-12 at City of Sundown Public Library, Sundown, TX (2022)
	5 <sup>th</sup> graders at The Leffell School, White Plains, NY (2020)
2021-present	Skype A Scientist LIVE Q&A on Marine Biology with >200 attendees on <u>Youtube</u> (2021) Chaired Top 10 New Marine Species Committee 2022–2023. Cowrote WoRMS articles for "Ten
	remarkable new marine species from [2020, 2021, 2022, 2023]" for Taxonomists
	Appreciation Day to draw public attention and press coverage to taxonomic research.
	https://lifewatch.be/en/worms-top10-2023
	https://lifewatch.be/en/worms-top10-2022
	https://lifewatch.be/en/worms-top10-2021
	https://lifewatch.be/en/worms-top10-2020
2024	Interviewed in LiveScience article on Gulper Eel parasite spotted by ROV.
	https://www.livescience.com/animals/watch-bright-red-blood-sucking-parasite-feast-on-
2022	gulper-eel-in-rare-deep-sea-footage
2022	Science ambassador for Smithsonian NMNH White House Office of Science and Technology
	Policy Staff. Ocean Hall expert to talk with OSTP staff about NMNH research. Feb. 28, 2022.
2021	Interviewed for National Geographic article "Parasites may gross us out but they hold ecosystems
	together". Oct 7. 2021. <a href="https://www.nationalgeographic.com/animals/article/parasites-are-">https://www.nationalgeographic.com/animals/article/parasites-are-</a>
	<u>diverse-heres-why-they-matter</u>
2021	Panel discussion on <u>Exolore Podcast</u> season 2 <u>episode 9</u> , a podcast featuring scientists discussing
	biology on extraterrestrial worlds. Aug. 27, 2021.
2021	Interviewed for The Atlantic article "The Mystery at the Base of One of Biology's Strangest
	Relationships" July 14, 2021.
2021	https://www.theatlantic.com/science/archive/2021/07/tongue-biting-isopod/619430/
2021 2021	Interviewed for Sharkpedia podcast "Shark Parasites with Dr. Jimmy Bernot" July 5, 2021.
2021	Interviewed for PlanetB612 microscopy podcast <u>"Parasites with Jimmy Bernot"</u> June 22, 2021. Interviewed on Biocord Network on LQBTQ PRIDE in STEM. June 21, 2021.
2021	Interview available on youtube:
	https://www.voutube.com/watch?app=desktop&v=6vho X3WXOY
2021	Interviewed for Undark/Slate article "In 'Challenge Trials' Participants Put Their Bodies on the
2021	Line". April 9, 2021.
	https://slate.com/technology/2021/04/covid-19-challenge-trials-malaria-hookworms.html
2021	Interviewed and supplied photographs for Snopes article on cymothoid isopods and fish tongue
2021	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 5 <sup>th</sup> grade class for World Parasite Day. Mableton Elementary School,
	Mableton, GA. March 4, 2021.

Panel discussion on hermaphroditic life on Exolore Podcast season 1 episode 23, a podcast featuring scientists, historians, psychologists that discuss biological and sociological implications of sci-if worlds. Feb. 11, 2021.  Interviewed on LGBTQ+ STEMCast, a podcast featuring LGBTQ+ scientists. Jan 4, 2021.  Authored blog post for WeRepSTEM, a diversity in STEM blog.  https://werepstem.com/2020/07/03/profile-james-jimmy-bernot-ph-d-candidate-in-genom bioinformatics-nsf-postdoc-research-fellow-in-biological-collections/  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, MI March 6, 2020.  Interviewed for PhDetails blog on graduate student life.  http://phdetails.blogspot.com/2020/01/83-jimmy-bernot.html  Scientist representative for Smithsonian Natural History Museum "Congressional Science Ni Invited by Smithsonian Department of Invertebrate Zoology to discuss science, research, collections with members of Congress and staff at a special event for science engagemen with Congress. July 17, 2019. https://twitter.com/JimmyBernot/status/115163957774616  Guest speaker on parasite biology, research, and career options at Temple High School in Arr on Parasite Day. Video call, presentation, and Q&A for 12th grade science classes x2. Ma 4, 2019.  "Computational Biology" Discussed research in the Computational Biology Institute in Introduction to Medicine, a college-level course for high school students. George Washin University. July 3, 2018.  Crustacean scientist, ocean hall Invertebrate Zoology Department public outreach. Crustacean specimen displays and Q&A. Smithsonian NMNH. April 5, 2018.  Crustacean scientist, ocean hall Invertebrate Zoology Department public outreach. Crustacean specimen displays and Q&A. Smithsonian NMNH. Smithsonian NMNH. "Copepods: v reefs eat, and what is eating them." Topic included: food webs, invertebrate diversity, specimen display, Q&A. Smithsonian NMNH. June 8, 201	2021	Podcast on copepod diversity with <u>Just the Zoo of Us</u> episode 86 – an animal diversity podcast. Feb. 24, 2021.
Interviewed on LGBTQ+ STEMCast, a podeast featuring LGBTQ+ scientists. Jan 4, 2021.	2021	Panel discussion on hermaphroditic life on <u>Exolore Podcast</u> season 1 <u>episode 23</u> , a podcast featuring scientists, historians, psychologists that discuss biological and sociological
Authored blog post for WeRepSTEM, a diversity in STEM blog.  https://werepstem.com/2020/07/03/profile-james-jimmy-bernot-ph-d-candidate-in-genom bioinformatics-nsf-postdoc-research-fellow-in-bioigical-collections/  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, MI March 6, 2020.  Interviewed for PhDetails blog on graduate student life.	2021	* · · · · · · · · · · · · · · · · · · ·
https://werepstem.com/2020/07/03/profile-james-jimmy-bernot-ph-d-candidate-in-genombioinformatics-nsf-postdoc-research-fellow-in-biological-collections/  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, MI March 6, 2020.  Interviewed for PhDetails blog on graduate student life.  http://phdetails.blogspot.com/2020/01/83-jimmy-bernot.html  Scientist representative for Smithsonian Natural History Museum "Congressional Science Ni Invited by Smithsonian Department of Invertebrate Zoology to discuss science, research, collections with members of Congress and staff at a special event for science engagemen with Congress. July 17, 2019. https://twitter.com/jimmyBernot/status/115163957774616  2019 Guest speaker on parasite biology, research, and career options at Temple High School in Ari on Parasite Day. Video call, presentation, and Q&A for 12th grade science classes x2. Ma 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 Washir 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 Contributed a figure to Science Magazine article Biologists propose to sequence the DNA of a life on Earth. https://doi.org/10.1126/science.aal0824  2016 Meet-a-scientist "Ocean Expert" for World Ocean Day at Smithsonian NMNH. "Copepods: v 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. Broade designed to meet middle school science curriculum. Online attendance >2,000 students. Smithsonian NMNH. May 19, 2016.  2015 Interviewed for UConn Today article "Of Scholars-and-tapewo		
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Introduction to Medicine, a college-level course for high school students. George Washin University. July 3, 2018.  Crustacean scientist, ocean hall Invertebrate Zoology Department public outreach. Crustacean specimen displays and Q&A. Smithsonian NMNH. April 5, 2018.  Contributed a figure to Science Magazine article Biologists propose to sequence the DNA of a life on Earth. https://doi.org/10.1126/science.aal0824  2016 Meet-a-scientist "Ocean Expert" for World Ocean Day at Smithsonian NMNH. "Copepods: verefs eat, and what is eating them." Topic included: food webs, invertebrate diversity, specimen display, Q&A. Smithsonian NMNH. June 8, 2016.  Served as expert for live Q&A on parasites in Smithsonian "ScienceHow?" Webcast. Broade designed to meet middle school science curriculum. Online attendance >2,000 students. Smithsonian NMNH. May 19, 2016.  On-camera interview for BBC documentary on CRISPR-CAS9 and research ethics. Washing University. Washington, DC. April 19, 2016.  Interviewed for UConn Today article "Of Scholar and Tapeworms". April 23, 2015. https://today.uconn.edu/2015/04/of-scholars-and-tapeworms  Prepared specimens and worked with MacroscopicSolutions to design an exhibit on tapeworm the Connecticut State Natural History Museum.  Designed and presented a curriculum on parasites for 1st and 4th grade students. Franklin Elementary School Franklin, CT.  Designed and presented a curriculum on parasites for 3rd and 4th grade students. Franklin	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 12 <sup>th</sup> grade science classes x2. March 4, 2019.
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# PROFESSIONAL SERVICE

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Appointments:	
2023-present	Associated Editor, Journal of Parasitology
2017-present	World Registry of Marine Species (WoRMS)
	Steering Committee (elected, 2022–2024)
	Taxonomic Editor for Copepoda (2017–present)
	Chair: WoRMS Top-10 New Marine Species Committee (2023, 2024)
	WoRMS Top-Ten New Marine Species Committee (2019–2022)
	WoRMS Image Working Group (2020)
2021-2024	Senate, Smithsonian National Museum of Natural History
2017-2020	REDCap system administrator and instructor. CTSI-CN: A Partnership between Children's National Medical Center and GWU
2014-2015	Graduate student representative to Ecology & Evolutionary Biology faculty. University of
	Connecticut
2015	Graduate Student Symposium Committee. University of Connecticut
•	nd service in professional societies:
2011-present	American Society of Parasitologists
	Nomination and Tellers Committee (elected, 2021, 2022, 2023, 2024)
	Education Committee (appointed to 3-year term, 2021–2024)
	Student Awards Committee (appointed to 2-year term, 2023–2024)
	Local Organizing Committee, Baltimore Meeting (appointed, 2026 meeting)
	Committee on Diversity, Equity, and Inclusion (appointed, 2019)
	Awards Committee (appointed, 2018, 2019, 2023)
	Resolutions Committee (appointed, 2018, 2019, 2023)
2017-present	The World Association of Copepodologists
	Executive Committee (elected to 2-year term, 2022–2024, 2024–2026)
	Founding Chair, Student Program Committee (2024-present)
	Founding Chair, Student Research Grant Committee (2023–2024)
	Chair, Student Presentation Awards Committee (2024)
	Social Media Coordinator (2020–present) Twitter: @copepodology and Facebook
2024-present	Society of Systematic Biologists
	DEI Committee (appointed to 2-year term, 2024–2027)
2016-2024	Helminthological Society of Washington
	Executive Committee (appointed to 2-year term, 2022–2024)
	Student Research Grant Committee (2023)
	Committee for Underrepresented Minorities Research Awards (2021–2022)
	Diversity, Inclusion, and Discrimination Policies Committee (2021)
2022	International Conference on Copepoda (e-ICOC) Steering Committee
2016-present	AAAS
2016-present	Society of Systematic Biologists
2018-present	The Crustacean Society
2018-present	Global Invertebrate Genomics Alliance (GIGA)
Other professi	onal service:
2022-present	Smithsonian NMNH Creative Council (Public Affairs, Communications, and science advisory team for digital and social media and television)
2021-present	Member: Smithsonian Pride Alliance
2019	Organized Ensembl Workshop "Browsing Genes and Genomes" at GWU.
2018	Contributed photos to Operating a Successful Cryopreservation Facility. James Bennet. 2018.
2010	Planer plc (Publisher)

2016 Institute for Biomedical Sciences Curriculum Committee. GWU June 2016

2012-2015 Graduate Student Association. University of Connecticut.

# Reviewed 31 articles for 19 journals:

Acta Parasitologica, African Journal of Marine Science (x2), Communications Biology, Comparative Parasitology, Journal of Crustacean Biology (x2), Journal of Natural History, Marine Biology, Molecular Biology and Evolution (x2), MDPI Diversity, Molecular Phylogenetics and Evolution (x4), Neotropical Biodiversity, Parasite, Parasitology Research (x2), PeerJ (x2), PLOSONE (x2), Scientific Reports, Systematic Parasitology (x4), The Biological Bulletin, Wellcome Open Research

# PROGRAMMING LANGUAGES

Python, R, Shell

# PROFESSIONAL CONTACTS

#### Dr. Keith Crandall

Biostatistics and Bioinformatics George Washington University KCrandall@gwu.edu

# Dr. Geoff Boxshall

Department of Life Sciences Natural History Museum, London G.Boxshall@nhm.ac.uk

#### Dr. Janine Caira

Ecology and Evolutionary Biology University of Connecticut Janine.Caira@uconn.edu

# Dr. Anna Phillips

Department of Invertebrate Zoology Smithsonian National Museum of Natural History PhillipsAJ@si.edu