Shoyo Sato, Ph.D.

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EDUCATION

Harvard University, Cambridge, MA……April 2023
Ph.D. Department of Organismic and Evolutionary Biology
Advisor: Dr. Gonzalo Giribet

Boston University, Boston, MA……May 2016
Bachelor of Arts- magna cum laude
Major: Ecology and Conservation Biology
Minor: Marine Science

COURSES TAUGHT

As a teaching fellow/teaching assistant
Responsibilities include lab design and supervision, lecturing, course planning, course logistics, and fieldwork training

Boston University……Fall 2016

- *BI438E: Tropical Montane Ecology*
- *BI439E: Tropical Rainforest Ecology*
- *BI440E: Tropical Coastal Ecology*
- *BI441E: Studies in Tropical Ecology*

Harvard University……Spring 2019-present

- *OEB51: Biology and Evolution of Invertebrate Animals*
- *OEB11: Introduction to Tropical Ecology*
- *OEB112: Arthropod Biology- Arachnida and Myriapoda, Their Biology and Evolution*
- *OEB60: Fundamentals of Marine Biology*

AWARDS AND GRANTS

Daniel A. Buckley Scholarship……Fall 2017
Harvard University

Certificate of Distinction and Excellence in Teaching…. Spring 2019, Fall 2020, Spring 2022
Derek Bok Center for Teaching and Learning, Harvard University

Putnam Expedition Grant - $4850……Fall 2022
Jamaican Velvet Worms: Colonization and Radiation on a Caribbean Island
Museum of Comparative Zoology, Harvard University

Harvard Horizons Finalist……Fall 2022
Harvard University

PUBLICATIONS

- **Sato, S.**, Buckman-Young, R.S., Harvey, M.S., Giribet, G. 2018. Cryptic speciation in a biodiversity hotspot: multilocus data reveal new velvet worm species from Western Australia (Onychophora: Peripatopsidae: *Kumbadjena*). *Invertebrate Systematics* **32**(6): 1249-1246. https://doi.org/10.1071/IS18024.
- **Sato, S.**, Law, A., Giribet, G. 2022. Evidence for spatial niche partitioning in the ectocommensal *Symbion americanus* (Cycliophora) on its lobster host, *Homarus americanus* (Arthropoda, Malacostraca). *Invertebrate Biology* **141**(2): e12370. https://doi.org/10.1111/ivb.12370.
- **Sato, S.**, Cunha, T.J., de Medeiros, B.A.S., Khost, D.E., Sackton, T.B., Giribet, G. 2023. Sizing up the onychophoran genome: repeats, introns, and gene family expansion contribute to genome gigantism in *Epiperipatus broadwayi*. *Genome Biology and Evolution* **15**(3): evad021. https://doi-org/10.1093/gbe/evad021.
- Lord, A**.,** Cunha, T.J., de Medeiros, B.A.S., **Sato, S.**, Khost, D.E., Sackton, T.B., Giribet, G. 2023 Expanding on our knowledge of ecdysozoan genomes: a contiguous assembly of the meiofaunal priapulan *Tubiluchus corrallicola*. *Genome Biology and Evolution* **15**(6): evad103. https://doi-org/10.1093/gbe/evad103.
- **Sato, S.**, Derkarabetian, S., Valdez-Mondragón, Pérez-González, A., Benavides, L.R., Daniels, S.R., Giribet, G. 2024. Under the hood: Phylogenomics of hooded tick spiders (Arachnida, Ricinulei) uncovers discordance between morphology and molecules. *Molecular Phylogenetics and Evolution* **193**: 108026. https://doi.org/10.1016/j.ympev.2024.108026.
- **Sato, S.**, Derkarabetian, S., Lord, A., Giribet, G. 2024. An ultraconserved element probe set for velvet worms (Onychophora). *Molecular Phylogenetics and Evolution* **197**: 108115. https://doi.org/10.1016/j.ympev.2024.108115.
- **Sato, S.**, Appeldorf, C., Wangensteen, O.S., Garcés-Pastor, S., Laumer, C.E., Herranz, M., Giribet, G., Renault, D., Rask Møller, P., Worsaae, K. 2025. Phylogenomics of the rarest animals: a second species of Micrognathozoa identified by machine learning. Proceedings of the Royal Society B: Biological Sciences **292**: 20242867. https://doi.org/10.1098/rspb.2024.2867.

INVITED TALKS

- *GIGA IV: Fourth International Meeting of the Global Invertebrate Genomics Alliance*, online, 16-18 Nov. 2021
  The final frontier of panarthropodian genomics: the genome of the onychophoran *Epiperipatus broadwayi* (Onychophora: Peripatidae)

CONFERENCE PRESENTATIONS

- *5th International Congress on Invertebrate Morphology*, Vienna, 8-12 Aug. 2022
  Peeling back the Onychophora: an exploration of the genome of Epiperipatus broadwayi with notes on the evolution of ecdysis

MENTORING

Allison Law……(2019-2020)
Senior thesis: Consider the lobster ectocommensal, Symbion americanus*: phylogeographic analysis reveals spatial niche partitioning on host mouthparts*
Awarded Thomas T. Hoopes Prize for undergraduate research