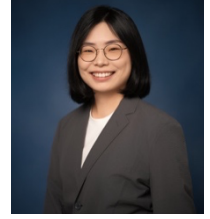


## Li Yixuan

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### WORK

Hong Kong Baptist University, Postdoc research fellow, Department of Biology, Oct 2024-present

### EDUCATION

Hong Kong Baptist University, Ph.D., Biology, Sept. 2020- Oct. 2024.

First Institute of Oceanography, Ministry of National Resources, M. Sc., Marine Biology, Sept. 2017-Jun. 2020

Hainan University, B. Sc., Marine Science, Sept. 2013-Jun. 2017

### RESEARCH INTERESTS

Phylogenetics, Population genetics, Sequencing, aDNA, Marine Biodiversity, Genomics

### ACADEMIC ACTIVITIES

- ✧ Oral presentation, BECOME2025, 19<sup>th</sup>-23<sup>rd</sup> Aug 2025, Hong Kong, China
- ✧ Oral presentation, 17<sup>th</sup> Deep-sea Biology Symposium, 12<sup>th</sup>-17<sup>th</sup> Jan 2025, Hong Kong, China
- ✧ Participant, Introduction to Palaeogenomics, 9<sup>th</sup> -15<sup>th</sup> May 2024, Barcelona, Spain
- ✧ Oral presentation, 9<sup>th</sup> Youth Geoscience Forum, 17<sup>th</sup>-21<sup>st</sup> May 2024, Xiamen, China
- ✧ Participant, 25<sup>th</sup> EMBL PhD Symposium, 20<sup>th</sup> -22<sup>nd</sup> Nov 2023, Heidelberg, Germany.
- ✧ Participant, SMBE23, 23<sup>rd</sup>-27<sup>th</sup> July 2023, Society of Molecular Biology and Evolution, Ferrara, Italy.
- ✧ Participant, Workshop on Molecular Evolution, 26<sup>th</sup> May-5<sup>th</sup> June 2023, Molecular Biology Laboratory, USA
- ✧ Oral presentation, Molluscan Forum, 17<sup>th</sup> Nov 2022, London, UK
- ✧ Oral presentation, 2nd International Symposium on Marine Science and Engineering for Young Scientists and Postgraduates, 13-15<sup>th</sup> Jul 2022, Hong Kong, China
- ✧ Oral presentation, The Second International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems, 3-7<sup>th</sup> Jan 2022, Hong Kong, China
- ✧ Oral presentation, 1st International Symposium on Marine Science and Engineering for Young Scientists and Postgraduates, 12-14<sup>th</sup> Jul 2021, Hong Kong, China
- ✧ Poster presentation, Qingdao National Laboratory for Marine Science and Technology 2019 Annual Conference, January 2020, Qingdao, China
- ✧ Short-term research, Zoological Institute Russia Academy of Sciences, October-November 2019, St. Petersburg, Russia
- ✧ Participant, Population genomics analysis training for genome resequencing. EHBIO Gene Technology (Beijing) Co., Ltd. 8<sup>th</sup>-10<sup>th</sup> August 2019, Beijing, China
- ✧ Oral presentation, Chinese Society for Oceanology and Limnology seminar, 19<sup>th</sup> July 2019, Xiamen, China
- ✧ Oral presentation, China-South Asia Ocean Acidification and Climate Change Seminar, 1<sup>st</sup> December 2018, China
- ✧ Chinese youth delegate, East Asian Seas Youth Forum conference, 27<sup>th</sup>-30<sup>th</sup> November 2018, Iloilo, Philippines

### RECENT HONOR & AWARDS

- ✧ Local Young Talent Awardees, 17<sup>th</sup> Deep-sea Biology Symposium, 12<sup>th</sup>-17<sup>th</sup> Jan 2025, Hong Kong, China
- ✧ Best Student Presentation Award, 9<sup>th</sup> Youth Geoscience Forum, 17<sup>th</sup>-21<sup>st</sup> May 2024
- ✧ Best Presentation Award for Postgraduates, 2nd International Symposium on Marine Science and Engineering for Young Scientists and Postgraduates, Jul 2022
- ✧ Best Presentation Award for Postgraduates, 1st International Symposium on Marine Science and Engineering for Young Scientists and Postgraduates, Jul 2021
- ✧ Bronze Prize, China College Students' Entrepreneurship Competition in 2016, Nov 2016

### PUBLICATIONS

- ✧ Li Y-X, Ng J, Loke H, Liu L, Qiu J-W. Hidden in Plain Sight: Integrative Taxonomy Discovers Two New Species of Digitate Soft Corals in the Urban Waters of China's Greater Bay Area. Ecology and Evolution. (Accepted)
- ✧ Lin Y-T, Hui F, Han W, Li Y-X, Heung B, How C, Wang S, Qiu J-W. Chromosome-level genome assembly of

Eden's whale clarifies the taxonomy and speciation of Bryde's whale complex. *Molecular Biology and Evolution*. (Accepted)

- ✧ Loke H, Heung B, **Li Y-X**, Lin Y-T, Hosie A, Wang Z, McNamara M, Qiu J-W. Integrative phylogenetic and morphological analyses reveal two new species of porcellanid crabs and resurrect *Porcellanella picta* Stimpson, 1858 (Decapoda: Porcellanidae), *Ecology and Evolution*. (Accepted)
- ✧ **Li Y-X**, Nazarova S, Ip JCH, Genelt-Yanovskiy E, Xu T, Dong Y, Qiu J-W, Zhang X-L, Xu Q-Z. 2025. Resolving the Genetic Divergence and Population Structure in the Circumpolar Ophiuroid *Ophiura sarsii* Complex. *Journal of Biogeography*. e15184.
- ✧ Hu X<sup>#1</sup>, **Li Y-X**<sup>#1</sup>, Dong Y, Liao X, Zhang Q, Mou A, Li X, Xu Q. 2025. Population characteristics of the dominant cold-water brittle star *Ophiura sarsii vadicola* in the Yellow Sea. *Journal of Oceanology and Limnology*. 43: 865-877.
- ✧ Liao X, Li X, Mou A, Zhang Q, Dong Y, **Li Y-X**, Zhang X-L, Xu Q. 2025. Thermal acclimatization mechanisms in the cold-water Ophiuroid *Ophiura sarsii vadicola*: Regulation of protein homeostasis and metabolic pathways. *Journal of Thermal Biology*. 130:104137.
- ✧ Xu QZ<sup>#1\*</sup>, **Li Y-X**<sup>#1</sup>, Shi WG<sup>#1</sup>, Dong Y, Li Z, Ip JCH, Galaska MP, Han C, Zhang Q, Sun YY, Zhao LL, Sun KM, Wang ZL, Qiu JW, Zhang XL. 2025. Chromosome-level genome assembly and single-cell analysis unveil molecular mechanisms of arm regeneration in the ophiuroid *Ophiura sarsii vadicola*. *Genome Biology*. 26: 82.
- ✧ **Li Y-X**, Ip JCH, Chen C, Xu T, Zhang Q, Sun Y, Ma P, Qiu J-W. 2025. Phylogenomics of Bivalvia using ultraconserved elements (UCEs) reveal new topologies for Pteriomorphia and Imparidentia. *Systematic Biology*. 74(1):16–33.
- ✧ Dai Q, Xu T, **Li Y-X**, Sun YN, Lin YT, Yahagi T, Perez M, Qian P-Y, Qiu J-W. 2025. Comparative population genetics of two Alvinocaridid shrimp species in chemosynthetic ecosystems of the Western Pacific. *Integrative zoology*.
- ✧ Zhao MH, Ip JCH, How CM, **Li Y-X**, Deconinck D, Qiu J-W. 2025. DNA barcode reference database and gap analysis for biomonitoring Hong Kong's marine animals. *Regional Studies in Marine Science*. 81:103946.
- ✧ Ip JCH, Loke H-X, Yiu SKF, Zhao M, **Li Y-X**, Lin YT, How CM, Mo JZ, Yan M, Cheng JP, Lai VCS, Chan LL, Leung KM, Qiu J-W. 2024. Bottom Trawling and Multi-Marker eDNA Metabarcoding Surveys Reveal Highly Diverse Vertebrate and Crustacean Communities: A Case Study in an Urbanized Subtropical Estuary. *Environmental DNA*. 6(6):e70031.
- ✧ Lin Y-T, **Li Y-X**, Loke H-X, Han X, Qiu J-W. 2024. One becomes three: An integrated morphological and molecular analysis of the windowpane oyster *Placuna* (Bivalvia: Pectinida) reveals new species. *Ecology and Evolution*. 14L:e70260.
- ✧ Zhang Q, Hu X, Deng ZJ, **Li Y-X**, Dong Y, Han C, Zeng XQ, Xiao N, Zhang XL, Xu QZ. 2024. Population genetics and evolutionary history of the intertidal brittle star *Ophiothrix* (*Ophiothrix*) *exigua* in the northern China Sea. *Ecology and Evolution*. 14(9): e70284.
- ✧ Han C, Zhang Q, **Li Y-X**, Sun Y, Dong Y, Ge M, Li Z, Hu X, Liu B, Zhang X, Wang Z, Xu Q. 2024. Chromosome-level genome assembly and annotation of the cold-water species *Ophiura sarsii*. *Scientific Data*. 11(1):560.
- ✧ Ding K, Xu Q, Zhao L, **Li Y-X**, Li Z, Shi W, Zeng Q, Wang X, Zhang X. 2024. Chromosome-level genome provides insights into environmental adaptability and innate immunity in the common dolphin (*Delphinus delphis*). *BMC Genomics*. 25:373.
- ✧ Xu QZ, Lu M, Sun Y, Li Z, **Li Y-X**, Dong Y, Hu X, Zhang Q, Liu B, He X. 2024. Structural features and phylogenetic implications of crinoid echinoderms based on thirteen novel mitochondrial genomes. *Journal of Marine Science and Engineering*. 12(3):361.
- ✧ Liao X, Mo J, Zhang Q, Dong Y, **Li Y-X**, Shi W, Zhang X, Xu Q. 2023. Transcriptomic insights into the acclimatization response of the cold-water Ophiuroid *Ophiopholis mirabilis* to elevated temperatures. *Marine Biology*. 171(1):18.
- ✧ Dong Y, **Li Y-X**, Ge M, Takatsu T, Wang Z, Zhang X, Ding D, Xu Q. 2023. Distinct gut microbial communities and functional predictions in divergent ophiuroid species: host differentiation, ecological niches, and adaptation to cold-water habitats. *Microbiology Spectrum*. 11(6):e0207323.
- ✧ He X, Xu T, Chen C, Xu L, **Li Y-X**, Zhong Z, Gu X, Lin Y-T, Lan Y, Yan G, Sun Y, Qiu J-W, Qian P-Y, Sun J. 2023. Same (sea) bed different dreams: Biological community structure of the Haima seep reveals distinct biogeographic affinities. *The Innovation Geoscience*. 1(2):100019.
- ✧ Li Y, He X, Lin Y, **Li Y-X**, Kamenev G, Li J, Qiu J-W, Sun J. 2023. Reduced chemosymbiont genome in the methane seep thysirid and the cooperated metabolisms in the holobiont under anaerobic sediment. *Molecular Ecology Resources*. 00:1–15.

- ✧ Lin Y-T, **Li Y-X**, Sun Y, Tao J, Qiu J-W. 2023. A new species of the genus *Catillopecten* (Bivalvia: Pectinoidea: Propeamussiidae): morphology, mitochondrial genome, and phylogenetic relationship. *Frontiers in Marine Science*. 10:1168991.
- ✧ **Li Y-X**, Sun YN, Lin Y-T, Xu T, Ip JCH, Qiu J-W. 2023. Cold Seep Fauna. In: Chen DF and Feng D (Eds.) *South China Sea Seeps*. Springer Nature Singapore Pte. (Book chapter)
- ✧ **Li Y-X**, Zhang YJ, Ip JCH, Liu J, Chen C, Little CTS, Yokoyama Y, Yasuhara M, Qiu J-W. 2023. Phylogenetic context of a deep-sea clam (Bivalvia: Vesicomyidae) revealed by DNA from 1,500-years-old shells. *Zoological Research* 44(2): 353–356.
- ✧ Ge ML, Mo J, Ip JCH, **Li Y-X**, Shi WG, Wang ZL, Zhang XL, Xu QZ. 2022. Adaptive biomineralization in two morphotypes of Sternaspididae (Annelida) from the Northern China Seas. *Frontiers in Marine Science* 9: 984989
- ✧ Fuad MTI, Shi W-G, Liao X-M, **Li Y-X**, Sharifuzzamzn SM, Zhang X-L, Liu XS, Xu QZ. 2022. Transcriptomic response of intertidal brittle star *Ophiothrix exigua* to seasonal variation. *Marine Genomics* 64:100957
- ✧ Li QH, **Li Y-X**, Na JY, Han XQ, Paterson GLJ, Liu K, Qiu J-W, Zhang DS. 2021. Description of a new species of *Histampica* (Ophiuroidea: Ophiothamnidae) from cold seeps in the South China Sea and analysis of its mitochondrial genome. *Deep Sea Research Part I: Oceanographic Research Papers* 178:103658
- ✧ Ge M-L, Shi W-G, **Li Y-X**, Li Z, Zhang X-L, Xu Q-Z. 2021. Complete mitochondrial genome of *Dibranchius japonicus* (Actinopterygii, Lophiiformes, Ogcocephalidae), from the West Pacific Ocean. *Mitochondrial DNA Part B: Resources*. 6(8):2214-2215
- ✧ Chao Y, Shi WG, Dong Y, **Li Y-X**, Xu QZ. 2021. The first complete mitochondrial genome of *Notostomus gibbosus* (Caridea, Acantheephyridae). *Mitochondrial DNA Part B: Resources*. 6(7):2050-2051
- ✧ Wang X-T, Shi W-G, **Li Y-X**, Zhang X-L, Xu Q-Z. 2021. The complete mitochondrial genome of *Oplophorus spinosus* (Brullé, 1839) (Caridea, Oplophoridae). *Mitochondrial DNA Part B: Resources*. 6(5):1597-1598
- ✧ Dong Y, **Li Y-X**, He PQ, Wang ZL, Fan SL, Zhang ZX, Zhang X-L, Xu Q-Z. 2021. Gut Microbial Composition and Diversity in Four Ophiuroid Species: Divergence Between Suspension Feeder and Scavenger and Their Symbiotic Microbes. *Frontiers in Microbiology*. 12:645070
- ✧ Shi W-G, **Li Y-X**, Dong Y, Xin M, Zhang X-L, Xu Q-Z. 2021. The effect of ocean acidification on the enzyme activity of *Apostichopus japonicus*. *Fish & Shellfish Immunology*. 108:1-6
- ✧ Shi W, **Li Y-X**, Nazarova S, Zhao L, Guo J, Fan S-L, Xu Q-Z. 2021. Study on genetic diversity of *Ophiura sarsii* populations in Arctic region. *Advances in Marine Science*. 39(3):441-451. (in Chinese with English Abstract)
- ✧ Genelt-Yanovskiy E, **Li Y-X**, Stratanenko E, Zhuravieva N, Strekova N, Xu Q-Z, Nazarova S. 2021. Phylogeography of the Brittle Star *Ophiura sarsii* Lütken, 1855 (Echinodermata: Ophiuroidea) from the Barents Sea and East Atlantic. *Diversity*. 13(2): 40
- ✧ **Li Y-X**, Dong Y, Xu QZ, Lin HS, Wang MH, and Zhang XL. 2020. Genetic differentiation and evolutionary history of the circumpolar species *Ophiura sarsii* and subspecies *Ophiura sarsii vadicola* (Ophiurida: Ophiuridae). *Continental Shelf Research*. 197:104085
- ✧ **Li Y-X**, Wang X-T, Dong Y, Fan SL, Xu QZ. 2020. The complete mitochondrial genome of *Ophiura kinbergi* (Ophiuroidea, Ophiurina): genome structure and phylogenetics. *Mitochondrial DNA Part B* 5(2):1309-1310
- ✧ Ge ML, **Li Y-X**, Zhang XL, Fan SL, Xu QZ. 2020. Taxonomic diversity of the benthic polychaeta in China seas. *Advances in Marine Science*. 38(2):287-303. (in Chinese with English Abstract)
- ✧ Xu Q-Z, **Li Y-X**, Dong Y. 2019. Characterization of the complete mitochondrial genome of *Amphioplus laevis* (Ophiuroidea, Amphiuridae) with phylogenetic analysis. *Mitochondrial DNA Part B: Resources*. 4(2): 3062-3063.
- ✧ Qian J, Li HW, Yang ZL, **Li Y-X**, Wang XH. 2016. The effect on the growth of *Moina mongolina* by feeding three marine algae. *Jiangsu Agricultural Sciences*. 44(7): 477-480. (in Chinese)