

# Yifei Yu

Address: MMW619, The Chinese University of Hong Kong, N.T., Hong Kong

Mobile phone: +852 60454212(HK) +86 13562116249(Mainland)

Email: [yf9701@gmail.com](mailto:yf9701@gmail.com)(HK) [1319892964@qq.com](mailto:1319892964@qq.com)(Mainland)

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## Education

**The Chinese University of Hong Kong, Hong Kong** 2020.8-2024.10

**Ph.D. Doctor of Philosophy**, Major in Biology 15/10/2024

- GPA: 3.351/4
- Thesis: Genomic evolution and adaption of cnidarians

The analysis of ANTP homeobox genes and microRNAs carried out revealed the evolution pattern in the deep-sea cnidarians; published and analyzed the assembly coral genome; Found the relationship between external stress and molecular response in the cnidarians under the environmental stress with pollution; Conceive and build experimental equipment system to reveal the internal molecular mechanisms of natural phenomena——jellyfish bloom.

**City University of Hong Kong, Hong Kong** 2018.9-2019.7

**Master of Science**, School of Energy and Environment 15/07/2019

- GPA: 3.66/4.3
- Degree Awarded with Distinction

**Xiamen University, Xiamen, Fujian Province, China** 2014.9-2018.7

**Bachelor of Science**, Major in Environmental Science 30/06/2018

- GPA: 3.2898/4
- Thesis: Modeling the toxicity of Copper-Zinc-Cadmium mixtures to *Daphnia magna* using the biotic ligand model

The experiments used the *Daphnia magna* to test the single and mixture of two heavy metals' toxicity and obtained the parameter of predicted model. Inferred the mixtures of three heavy metals' toxicity by model optimization.

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## Publications

- Qu, Z.<sup>1</sup>, Nong, W.<sup>1</sup>, Yu, Y.<sup>1</sup>, Baril, T., Yip, H. Y., Hayward, A., & Hui, J. H. (2020). Genome of the four-finger threadfin *Eleutheronema tetradactylum* (Perciforms: Polynemidae). *BMC genomics*, 21,1-10.
- Nong, W.<sup>1</sup>, Yu, Y.<sup>1</sup>, Aase-Remedios, M. E., Xie, Y., So, W. L., Li, Y., ... & Hui, J. H. (2022). Genome of the ramshorn snail *Biomphalaria straminea*—An obligate intermediate host of schistosomiasis. *GigaScience*, 11, giac012.
- Xie, Y.<sup>1</sup>, Huang, E. Y.<sup>1</sup>, Nong, W.<sup>1</sup>, Law, S. T.<sup>1</sup>, Yu, Y.<sup>1</sup>, Cheung, K., ... & Hui, J. H. (2022). Population Genomics, Transcriptional Response to Heat Shock, and Gut Microbiota of the Hong Kong Oyster *Magallana hongkongensis*. *Journal of Marine Science and Engineering*, 10(2), 237.

- **Yu, Y.<sup>1</sup>**, Nong, W.<sup>1</sup>, So, W. L., Xie, Y., Yip, H. Y., Haimovitz, J., ... & Hui, J. H. (2022). Genome of elegance coral *Catalaphyllia jardinei* (Euphylliidae). *Frontiers in Marine Science*, 9, 991391.
- Law, S. T. S.<sup>1</sup>, **Yu, Y.<sup>1</sup>**, Nong, W.<sup>1</sup>, So, W. L., Li, Y., Swale, T., ... & Hui, J. H. L. (2023). The genome of the deep-sea anemone *Actinernus sp.* contains a mega-array of ANTP-class homeobox genes. *Proceedings of the Royal Society B*, 290(2009), 20231563.

## Conference

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|---|------------------------------|
| Biennial Cnidarian Model Systems Meeting (Cnidofest)<br>participant   | Hong Kong<br>07/2023         |
| <ul style="list-style-type: none"> <li>• Displayed the results of “Genome of elegance coral <i>Catalaphyllia jardinei</i> (Euphylliidae)”</li> </ul>  |                              |
| Association of Pacific Rim Universities (APRU)<br>conference helper   | Hong Kong<br>02/2024-02/2024 |
| <ul style="list-style-type: none"> <li>• Assisted attendees to sign in and arranged tea breaks and lunches</li> <li>• Presented the results of “Genome of elegance coral <i>Catalaphyllia jardinei</i> (Euphylliidae)” as a speaker and won an award</li> </ul> |                              |
| Euro Evo Devo (EED) conference participant  | Finland<br>06/2024-06/2024   |
| <ul style="list-style-type: none"> <li>• Displayed the results of “Genome of elegance coral <i>Catalaphyllia jardinei</i> (Euphylliidae)”</li> </ul>  |                              |

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## Experience

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| <b>The Chinese University of Hong Kong</b><br><b>Research Associate</b>  | Hong Kong<br>11/2024-now     |
| <ul style="list-style-type: none"> <li>• Prepared paper and grant application</li> <li>• Collaborated with team members on experiments and promoting the development of projects</li> <li>• Participated in regular lab meetings to ensure the progress and timelines</li> </ul>                   |                              |
| <b>The Chinese University of Hong Kong</b><br><b>Junior Research Assistant</b>   | Hong Kong<br>08/2019-07/2020 |
| <ul style="list-style-type: none"> <li>• Studied biological related knowledge and data analysis</li> <li>• Collaborated with team members on experiments and promoting the development of projects</li> <li>• Participated in regular lab meetings to ensure the progress and timelines</li> </ul> |                              |

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## Skills

**Technical:** MS Office, R programming, SPSS Knowledge

**Language:** Chinese (Mandarin, Native language); English (Fluent); Chinese (Cantonese, Mostly understand and speak a little)

**Laboratory:** Literature reviews, data interpretation, DNA/RNA extraction, PCR, genetic information mining, SNP analysis

**Experience:** Fieldwork experience, Conference helper experience

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