

JIYING LI

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EDUCATION

2014 PhD Limnology and Oceanography, University of Minnesota, USA
2011 MSc Water Resources Science, University of Minnesota, USA
2008 BE Environmental Science and Engineering, Shanghai Jiao Tong University, China

ACADEMIC APPOINTMENTS

2020—Present Assistant Professor, Department of Ocean Science, the Hong Kong University of Science and Technology, Hong Kong
2018—2020 Postdoctoral Researcher, Large Lakes Observatory, University of Minnesota Duluth, Minnesota, USA
2016—2018 Postdoctoral Researcher, Department of Physical and Environmental Sciences, University of Toronto, Scarborough, Toronto, Canada
2014—2016 Postdoctoral Researcher, Department of Plant and Soil Sciences, University of Delaware, Newark, Delaware, USA

RESEARCH INTERESTS

Aquatic biogeochemistry; sediment early diagenesis; carbon and nutrient cycling; oxygen dynamics; limnology; oceanography; environmental microbiology

PUBLICATIONS (team members are in bold text underlined; †: student authors; *: corresponding authors; only peer-reviewed publications are listed.)

Publications led by team members

1. **Lin, Y.**[†], **Sun, J.**[†], **Zhou, X.**[†], Zhong, C., **Yang, X.**[†], Yu, L., Sun, J., Qian, P., & **Li, J.**^{*} (2025) Chemoautotrophy enhances iron and phosphorus recycling from sediments at deep-sea methane seeps. *Global Biogeochemical Cycles*, 39, e2025GB008735, <https://doi.org/10.1029/2025GB008735>
2. **Gao, R.**[†], **Yang, X.**[†], Zhang, Q., Yung, C. C. M., He, D., Yin, H., & **Li, J.**^{*} (2025). Polyphosphate dynamics in marine heterotrophic bacteria under phosphorus and organic carbon limitations. *Environmental Microbiology*, 27(8), e70165. <https://doi.org/10.1111/1462-2920.70165>
3. **Sun, J.**[†], **Zhou, X.**[†], **Lin, Y.**[†], **Yang, X.**[†], Yu, L., Yung, C. C. M., Zhang, Q. & **Li, J.**^{*} (2025). Superlinear control of phosphorus recycling in coastal sediments by organic matter availability. *Water Research*, 283, 123889. <https://doi.org/10.1016/j.watres.2025.123889>

4. **Sun, J.**[†], Yu, L.^{*}, **Yang, X.**[†], Gan, J., Yin, H. & **Li, J.**^{*} (2024). Sediment oxygen uptake and hypoxia in coastal oceans, the Pearl River Estuary region. *Water Research*, 267, 122499. <https://doi.org/10.1016/j.watres.2024.122499>
5. **Yang, X.**[†], **Gao, R.**[†], Huff, A., Katsev, S., Ozersky, T. & **Li, J.**^{*} (2024). Polyphosphate phosphorus in the Great Lakes. *Limnology and Oceanography Letters*. <https://doi.org/10.1002/lol2.10394>
6. **Yang, X.**[†], **Gao, R.**[†], Zhang, Q., Yung, C. C. M., Yin, H. & **Li, J.**^{*} (2024). Quantification of Polyphosphate in Environmental Planktonic Samples Using a Novel Fluorescence Dye JC-D7. *Environmental Science & Technology*. <https://doi.org/10.1021/acs.est.4c04545>
7. **Li, J.**^{*}, V. Ianaiev, A. Huff, J. Zalusky, T. Ozersky, & S. Katsev^{*}. 2021. Benthic invaders control the phosphorus cycle in the world's largest freshwater ecosystem. *Proceedings of the National Academy of Sciences* 118 (6). <https://doi.org/10.1073/pnas.2008223118>

Submitted papers led by team members

1. **Lin, Y.**[†], **Sun, J.**[†], **Zhou, X.**[†], **Fan, Z.**[†], **Yang, J.**[†], **Du, H.**[†], Li, L., Xian, H., Dong, X., Yu, L. & Li, J.^{*} Sediments provide amplifying feedback to coastal eutrophication: disproportionate nutrient recycling under increasing organic matter deposition (under review at *Environmental Science and Technology*; dataset: <https://doi.org/10.5281/zenodo.15959091>)
2. **Sun, J.**[†], **Yang, X.**[†], Yu, L., Zhang, Q., Yung, C. M. & **Li, J.**^{*}. Hypoxia decreases nitrogen removal in coastal marine sediments (under review at *Environmental Science and Technology*; dataset: <https://doi.org/10.14711/dataset/XMTKWW>)

Working papers (in preparation) led by team members

1. **Yang, X.**[†], **Sun, J.**[†], Gao, R., Yung, C. M., Yu, L. & **Li, J.**^{*}. Beyond storage: polyphosphate maintenance as a survival strategy for microbes in the phosphorus-limited Pearl River Estuary (in preparation for *The ISME Journal*)
2. **Yang, X.**[†], **Sun, J.**[†], He, D., Yung, C. M., Yu, L. & **Li, J.**^{*} Dissolved organic phosphorous variability in coastal oceans driven by chemodiversity and microbial resource partitioning (in preparation for *Limnology and Oceanography*)
3. **Lin, Y.**[†], **Liu, T.**[†] & **Li, J.**^{*} Quantification of organic carbon preservation by iron oxides in marine sediments (in preparation for *Environmental Science and Technology*)
4. **Yang, X.**[†], **Gao, R.**[†], **Zhou, X.**[†], **Sun, J.**[†], Yung, C. M., Yu, L. & **Li, J.**^{*}. Polyphosphate in a eutrophic coastal lagoon: seasonal dynamics and environmental drivers

Collaborative publications after joining HKUST

1. Huang, J.^{*}, Yasuhara, M.^{*}, Wang, H.^{*}, Jimenez, P. J., **Li, J.** & Dai, M. Benthic ostracod diversity and biogeography in an urban semi-enclosed eutrophic riverine bay. *Biogeosciences* (accepted): <https://doi.org/10.5194/egusphere-2025-138>
2. Xu, Y., Sun, R., Redondo, E. R., Leung, K. K., Wan, S. H., **Li, J.** & Yung, C. C. M.^{*} (2024). Revealing the intricate temporal dynamics and adaptive responses of prokaryotic and eukaryotic

microbes in the coastal South China Sea. *Science of The Total Environment*, 952, 176019.
<https://doi.org/10.1016/j.scitotenv.2024.176019>

3. Wang, S., Tsui, M. T.-K. *, **Li, J.** & Pan, K. (2024). Biogeochemical controls on methylmercury distribution in a subtropical wetland ecosystem. *Marine Pollution Bulletin*, 207, 116894.
<https://doi.org/10.1016/j.marpolbul.2024.116894>
4. Wang, T., Lin, C., Zhang, H., **Li, J.**, Wang, L., Luo, Y., Liu, J., Shen, J. & Tang, T. * (2024). Kinetic isotope effect of decomposing fatty acids in the continental shelf sediment of the northern South China Sea. *Frontiers in Marine Science*, 11, 1438092.
<https://doi.org/10.3389/fmars.2024.1438092>
5. Ruan, X., Couespel, D., Lévy, M., **Li, J.**, Mak, J. * & Wang, Y. (2024). Combined physical and biogeochemical assessment of mesoscale eddy parameterisations in ocean models: Eddy-induced advection at eddy-permitting resolutions. *Ocean Modelling*, 190, 102396.
<https://doi.org/10.1016/j.ocemod.2024.102396>
6. Zvi-Kedem, T., Lalzar, M., **Sun, J.**†, **Li, J.**, Tchernov, D. & Meron, D. * (2024). Exploring the Microbial Mosaic: Insights into Composition, Diversity, and Environmental Drivers in the Pearl River Estuary Sediments. *Microorganisms*, 12(7), 1273.
<https://doi.org/10.3390/microorganisms12071273>
7. Ruan, X., Couespel, D., Lévy, M., **Li, J.**, Mak, J. * & Wang, Y. (2023). Combined physical and biogeochemical assessment of mesoscale eddy parameterisations in ocean models: Eddy induced advection at non-eddy-resolving resolutions. *Ocean Modelling*, 183, 102204.
<https://doi.org/10.1016/j.ocemod.2023.102204>
8. Li, Y., He, X., **Lin, Y.**†, Li, Y., Kamenev, G. M., **Li, J.**, Qiu, J. & Sun, J. * (2023). Reduced chemosymbiont genome in the methane seep thiasirid and the cooperated metabolisms in the holobiont under anaerobic sediment. *Molecular Ecology Resources*, 23(8), 1853–1867.
<https://doi.org/10.1111/1755-0998.13846>
9. Yin, H. *, Zhang, M., Yin, P. & **Li, J.** (2022). Characterization of internal phosphorus loading in the sediment of a large eutrophic lake (Lake Taihu, China). *Water Research*, 225, 119125.
<https://doi.org/10.1016/j.watres.2022.119125>
10. Yang, C., **Li, J.** & Yin, H. * (2022). Phosphorus internal loading and sediment diagenesis in a large eutrophic lake (Lake Chaohu, China). *Environmental Pollution*, 292(Pt B), 118471.
<https://doi.org/10.1016/j.envpol.2021.118471>
11. Bai, Y., Stout, L., Unal-Tosun, G., **Li, J.** & Jaisi, D. * (2020). Synthesis and Degradation of Polyphosphate: Isotope Effects in Enzyme- and Bacteria-Catalyzed Reactions. *ACS Earth and Space Chemistry*, 4(12), 2327–2336. <https://doi.org/10.1021/acsearthspacechem.0c00230>

Publications prior to joining HKUST:

1. Alam, M. S., Barthod, **J. Li**, H. Liu, A. Zastepa, X. Liu, M. Dittrich *. 2020. Geochemical controls on internal phosphorus loading in Lake of the Woods. *Chemical Geology*: 119873

2. **Li, J.**^{*}, D. Plouchar, A. Zastepa and M. Dittrich. 2019. Picoplankton accumulate and recycle polyphosphate to support high primary productivity in coastal Lake Ontario. *Scientific Reports* 9: 19563
3. **Li, J.**^{*} and M. Dittrich. 2019. Dynamic polyphosphate metabolism in cyanobacteria responding to phosphorus availability. *Environmental Microbiology* 21: 572- 583
4. **Li, J.**^{*}, Y. Zhang, and S. Katsev. 2018. Phosphorus recycling in deeply oxygenated sediments in Lake Superior controlled by organic matter mineralization. *Limnology and Oceanography*. 63: 1372- 1385
5. **Li, J.**^{*}, E. T. Brown, S. A. Crowe, and S. Katsev. 2018. Sediment geochemistry and contributions to carbon and nutrient cycling in a deep meromictic tropical lake: Lake Malawi (East Africa). *Journal of Great Lakes Research*. 44: 1221-1234 (2018 Elsevier Early Career Most Notable Paper Award)
6. **Li, J.**, P. Reardon, J. P. McKinley, Y. Bai, S. Joshi, K. Bear, and D. P. Jaisi^{*}. 2017. Water column particulate matter a key contributor to phosphorus regeneration in coastal eutrophic environments, the Chesapeake Bay. *Journal of Geophysical Research – Biogeosciences*. 122: 737- 752
7. **Li, J.**, Y. Bai, K. Bear, S. Joshi, and D. P. Jaisi^{*}. 2017. Phosphorus availability and turnover in the Chesapeake Bay: Insights from nutrient stoichiometry and phosphate oxygen isotope ratios. *Journal of Geophysical Research – Biogeosciences*. 122: 811-824
8. Fakhraee, M., **J. Li** and S. Katsev^{*}. 2017. Significant role of organic sulfur in supporting sedimentary sulfate reduction in low-sulfate environments. *Geochimica et Cosmochimica Acta*. 213: 502-516
9. Crowe, S. A. ^{*}, A. H. Treusch, M. Forth, **J. Li**, C. Magen, D. E. Canfield, B. Thamdrup, S. Katsev. 2017. Novel anammox bacteria and nitrogen loss from Lake Superior. *Scientific Reports*. 7: 13757
10. **Li, J.**^{*}, and S. Katsev. 2014. Nitrogen cycling in deeply oxygenated sediments: Results in Lake Superior and implication to marine sediments. *Limnol. Oceanogr.* 59 (2): 465–481
11. **Li, J.**, S. A. Crowe, D. Miklesh, M. Kistner, D. E. Canfield, and S. Katsev^{*}. 2012. Carbon mineralization and oxygen dynamics in sediments with deep oxygen penetration, Lake Superior. *Limnol. Oceanogr.* 57:1634-1650

RESEARCH GRANTS

Leading projects granted by the Research Grants Council (RGC) of Hong Kong as **PI**:

- Polyphosphate cycling in coastal marine sediments. *RGC – General Research Fund* (project no. 1631525), 01/01/2026 – 31/12/2028 (HK\$ 890,587; PI)
- Cycling and fluxes of the greenhouse gas nitrous oxide in coastal marine sediments. *RGC – General Research Fund* (project no. 16311324). 01/01/2025 – 31/12/2027 (HK\$ 910,742; PI)
- Phosphorus cycling and fluxes in the sediment of coastal waters in Hong Kong. *RGC – General Research Fund* (project no. 16303022), 01/01/2023 – 31/12/2025 (HK\$ 870,000; PI)
- Polyphosphate dynamics in coastal oceans and roles in phosphorus cycling. *RGC – Early Career Scheme* (project no. 26305621), 01/01/2022 – 31/12/2024 (HK\$ 721,303; PI)

Leading projects granted by other funding sources as **PI**:

- Biogeochemistry of mangrove sediments in Mai Po Natural Reserve, Hong Kong. *Pilot Qingdao National Laboratory for Marine Science and Technology CORE Project* (project no. QNLM20SC01-U), 01/06/2024 – 31/05/2024 (HK\$ 500,000; Co-PI; Co-PIs: Longjun Wu, Qiong Zhang)
- Evolution and ecological protection of coastal lagoon system in south China. *Central Reserve Fund-HKUST-Guangzhou University (GZU) Joint Research Collaboration Fund* (project no. GZU22SC02), 01/01/2022 – 31/12/2022 (HK\$ 50,000; PI; PI at GZU: Xuhui Dong)
- Transient benthic oxygen uptake across dynamic diffusive boundary layer. *Pilot Qingdao National Laboratory for Marine Science and Technology CORE Project* (project no. QNLM20SC01-B), 01/11/2020 – 31/10/2021 (HK\$ 400,000; PI)
- Sediment diagenesis and sediment-water exchanges at a dynamic land-sea interface. *Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou) Hong Kong Branch Grant* (project no. SMSEGL20SC01-Y), 01/01/2020 – 31/12/2022 (HK\$ 600,000; PI; Co-I: Hongbin Liu, HKUST)

Collaborative projects granted by RGC as **Co-PI**:

- Coastal Blue carbon ecosystems in Hong Kong and the Greater Bay Area: carbon sequestration capacity, biogeochemical and microbial processes, and control mechanisms. *RGC–Strategic Topics Grant* (project no. STG2/P-604/25R), awarded in 07/2025 (HK\$ 31,000,000; participating as Co-PI; PC: Hongbin Liu, HKUST)
- A collision-cell equipped multi-collector inductively coupled plasma mass spectrometer (CC-MC-ICP-MS) for elucidating isotope fractionations in biological and chemical processes in the ocean. *RGC – Collaborative Research Fund – Equipment Grant 2022/2023* (project no. C6006-22E), 15/06/2023 – 14/06/2026 (HK\$ 6,446,183; participating as Co-PI; PC: Qiong Zhang, HKUST)

Participating projects (as Co-I) granted by RGC

- Study of the regional earth system for sustainable development under climate change in the Greater Bay. *RGC – Areas of Excellence Scheme* (project no. AoE/P-601/23N), 01/01/2024 – 31/12/2028 (HK\$ 66,918,000; participating as Co-I; PC: Jianping Gan, HKUST)
- Production of methylmercury and its linkage to biomagnification in food webs at a subtropical mangrove ecosystem. *RGC – General Research Fund* (project no. 14302523). 01/01/2024 – 31/12/2026 (HK\$ 877,079; participating as Co-I; PI: Martin Tsui, CUHK)
- Diagnosis and prognosis of intensifying eutrophication, hypoxia and the ecosystem consequences around Hong Kong waters: coupled physical-biogeochemical-pollution studies. *RGC – Theme-based Research Scheme* (project no. T21-602/16-R), 01/01/2017 – 31/12/2022 (HK\$ 27,339,452; participating as Co-I starting from 2021; PC: Jianping Gan, HKUST)

Proposals submitted to RGC pending approval

- The dynamic cycle of sediment polyphosphate and its contribution to internal phosphorus release in a shallow eutrophic lake. *National Natural Science Foundation of China (NSFC)-RGC Joint Research Scheme*, shortlisted and full proposal submitted in July 2025 (**PI**; mainland collaborator: Hongbin Yin, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences; Co-I: Charmaine Yung, HKUST)

- Understanding fine-grained methane hydrate-bearing sediments towards safe and sustainable exploitation. *RGC – Collaborative Research Fund* (project no. C5023-25Y), shortlisted and full proposal submitted in July 2025 (participating as **Co-PI**; PC: Chao Zhou, The Hong Kong Polytechnic University)

TEACHING

- Chemical Oceanography (OCES 4025 & 5300) UG & PG, 3 credits, 6-20 students, Spring (2020 – present), HKUST
- Marine Chemistry (OCES 2002) UG, 3 credits, 25-45 students, Spring (2021–present), HKUST
- Ocean and Climate Change (OCES 4001) UG, 3 credits, 20-40 students, Spring (2022–2025), HKUST
- Principles & Applications of Environmental Science (OCES 1010) UG, 3 credits, 150-200 students, Spring & Fall (2022–2025), HKUST
- The Earth as a Blue Planet (OCES 1001) UG, 3 credits, 50-75 students, Spring & Fall (2024-2025)
- General Physics Laboratory UG, 3 credits, 60 students, Spring & Fall (2008–2009), University of Minnesota Duluth

MENTORING

In progress

Xingyu YANG	PhD	2021–present, HKUST (defense date: 23 Sep 2025)
Xiaotian ZHOU	PhD	2023–present, HKUST
Yuxuan LIN	PhD	2023–present, HKUST
Chuanzhe SUN	PhD	2024–present, HKUST
Hou Tin CHENG	UG, FYP	2025–present, HKUST
Man Hei KAN	UG, UROP	2025–present, HKUST

Completed

Jing SUN	PhD	2020–2025, HKUST, PhD awarded 2025 Current position: Postdoctoral researcher, HKUST
Rixuan GAO	MPhil	2021–2024, HKUST, MPhil awarded 2024 Current position: Technical Officer, HKUST
Yuxuan LIN	MPhil	2021–2023, MPhil awarded 2023 Current position: PhD student, HKUST
Lei ZHOU	MPhil	2020–2022, MPhil awarded 2022 Current position: PhD student, Nanyang Technology U
Zexin FAN	MSc	2023–2024, MSc awarded 2024

		Current position: PhD student, U of Nottingham, Ningbo
Tianyi LIU	MSc	2024–2025, MSc awarded 2025
Hanqing DU	MSc	2024–2025, MSc awarded 2025
Jingyi YANG	MSc	2023–2024, MSc awarded 2024
Xingyu YANG	MSc	2023–2024, MSc awarded 2024
Man Hei KAN	BSc, UROP	2025 summer
Ching Yee WONG	BSc, UROP	2025 summer
Tsz Ching LO	BSc, FYP	2022–2023
Hau Ki LI	BSc, FYP	2022–2023

UNIVERSITY SERVICE

2025–present	Management Committee, Ocean Research Facility, HKUST Search and Appointment Committee, Department of Ocean Science, HKUST Teaching Faculty Appointment Committee, Department of Ocean Science, HKUST
2024–2025	Search and Appointment Committee, Department of Ocean Science, HKUST Teaching Faculty Appointment Committee, Department of Ocean Science, HKUST
2023–2024	Member of the Senate, HKUST School Research Committee, School of Science, HKUST Search and Appointment Committee, Department of Ocean Science, HKUST Teaching Faculty Appointment Committee, Department of Ocean Science, HKUST
2022–2023	Member of the Senate, HKUST School Research Committee, School of Science, HKUST Search and Appointment Committee, Department of Ocean Science, HKUST Teaching Faculty Appointment Committee, Department of Ocean Science, HKUST
2021–2022	Postgraduate Student Committee, Department of Ocean Science, HKUST Teaching Faculty appointment committee, Department of Ocean Science, HKUST Research and Equipment committee, Department of Ocean Science, HKUST
2020–2021	Postgraduate Student committee, Department of Ocean Science, HKUST

PROFESSIONAL SERVICE

Manuscript reviewer:

Limnology & Oceanography, Limnology & Oceanography Letters, Continental Shelf Research, Estuaries and Coasts, Freshwater Science, Inland Waters, Journal of Coastal Research, Journal of Great Lakes Research, Environmental Science & Technology, Environmental Science & Technology Letters, Environmental Pollution, ACS ES&T Water, Science of the Total Environment, Geochemica et Cosmochimica Acta, Marine Chemistry, Biogeochemistry, Biogeosciences, ISME Communications, PLOS ONE, Communications Earth and Environment

Proposal reviewer:

- U.S. National Science Foundation, Biological Oceanography Program, USA
- Environmental Conservation Fund, Hong Kong

Other services and membership:

- Member of the Dumping at Sea Appeal Board Panel, Environmental Branch, Environment and Ecology Bureau, Hong Kong
- Goldschmidt 2026 Theme Chair for Theme 9: Biogeochemical cycles

AWARDS

Elsevier Early Career Scientist Award for Most Notable Paper (2018), International Association for the Great Lakes Research

CONFERENCE PRESENTATIONS († indicate mentee)

1. **Li, J.** Nutrient biogeochemistry in the ocean and future changes, International Symposium on the Changes of Climate, Environment, and Ecology in Antarctica, Great Wall Station, King George Island, Antarctica, Dec 29, 2024 (**invited** talk)
2. **Li, J.**, Sun, J.†, and Lin, Y.† Phosphorus recycling in sediments—the classic model and the anomalies, Goldschmidt Conference, Lyon, France, July 9–14, 2023, <https://doi.org/10.7185/gold2023.19092> (**invited Keynote** talk)
3. Yang, X.†, Gao, R.†, and **Li, J.** Unveiling the Role of Planktonic Polyphosphate in Aquatic Phosphorus Cycling with Novel Quantification, PolyP-2025 on Polyphosphate Biology, Ann Arbor, Michigan, USA, May 20-23, 2025 (Oral; **Travel Award** by the organizer, \$1,000 USD)
4. Lin, Y.†, Sun, J.†, Zhou, X.†, Yang, J.†, Fan, Z.†, and **Li, J.** Carbon and nutrient recycling in coastal sediments respond disproportionally to increasing organic matter inputs, Goldschmidt Conference, Chicago, Illinois, USA, Aug 18-23, 2024, <https://doi.org/10.46427/gold2024.24741> (Oral)
5. Sun, J.†, Zhou, X.†, Lin, Y.†, and **Li, J.** Sediment P recycling and effluxes in coastal oceans, the Pearl River Estuary region. Goldschmidt Conference, Chicago, IL, USA, Aug 18-23, 2024, <https://doi.org/10.46427/gold2024.24021> (Oral).
6. Sun, J.† and Li, J. Sediment oxygen consumption and seasonal hypoxia—A case study in the coastal South China Sea. ASLO Aquatic Sciences Meeting, Palma de Mallorca, Spain, June 4-9, 2023 (Oral)
7. Yang, X.† and **Li, J.** Polyphosphate as a Phosphorus Stock in Aquatic Ecosystems. ASLO Aquatic Sciences Meeting 2023, Palma De Mallorca, Spain, June 4-9, 2023 (Poster)
8. Sun, J.†, Yu, L., Yang, X.†, Gan J., Yin H., and Li, J. Sediment oxygen uptake and hypoxia in coastal oceans, the Pearl River Estuary region. Sixth Xiamen Symposium on Marine Environmental Sciences (XMAS-VI), Xiamen, Fujian, China, Jan 9-12, 2023 (Poster)
9. Lin, Y.†, Sun, J.†, Zhou, X.†, Zhong, C., and **Li, J.** Sediment phosphorus effluxes and nitrogen-iron-sulfur cycling enhanced by chemoautotrophy in a deep-sea methane seep, the 12th International Conference on Tropical Marine Environmental Changes, Guangzhou, Guangdong, China, Nov 18-20, 2023 (Oral)

10. Lin, Y.[†], Sun, J.[†], and **Li, J.** Iron-sulfur coupling regulates sediment phosphorus biogeochemistry and fluxes in coastal oceans, the 6th Xiamen Symposium on Marine Environmental Sciences (XMAS-VI), Xiamen, Fujian, China, Jan 9-12, 2023 (Oral)
11. Gao, R.[†], Yang, X.[†], and **Li, J.** Polyphosphate in marine heterotrophic bacteria as an energy storage. ASLO Aquatic Sciences Meeting, Palma de Mallorca, Spain, June 4-9, 2023 (Poster).
12. Yang, X.[†], Gao, R.[†], and **Li, J.** The Challenges in Quantifying PolyP in Natural Water Samples. FEBS 2023 Polyphosphate Meeting, Cadiz, Spain, May 9-12, 2023 (Oral; **Travel Grant** awarded by the organizer, €600 EUR)
13. Yang, X.[†] and **Li, J.** Polyphosphate in the plankton of the oligotrophic Great Lakes, Joint Aquatic Science Meeting, Grand Rapids, Michigan, USA, May 14-20, 2022 (Oral)

Selected presentations before joining HKUST

1. Li, J., V. Ianaiev, A. Huff, J. Zalusky, T. Ozersky, and S. Katsev. Benthic Shunt: dreissenid mussels now control phosphorus dynamics in Lake Michigan. IAGLR Conference, Brockport, NY, USA, June 10-14, 2019 (Oral)
2. Li, J., A. Zastepa, S. Markovic, S. Watson, and M. Dittrich. Seasonal and spatial variability of polyphosphate in the water column of Hamilton Harbour. IAGLR Conference, Scarborough ON, Canada, June 18- 22, 2018 (Oral)
3. Li, J., P. Reardon, S. R. Joshi, Y. Bai, K. Bear, N. Dhakal, N. Washton, and D. P. Jaisi. Internal cycling of phosphorus in the Chesapeake Bay: Comparison of P cycling in water and sediment columns. ASA-CSA-SSSA Annual Meeting, Minneapolis MN, USA. Nov. 15 -18, 2015 (Oral)
4. Li, J., P. Reardon, Joshi, S.R., Bai, Y., Bear, K., Washton, N., Jaisi, D.P. Remineralization of organic phosphorus and precipitation of authigenic phosphate in the mid-Chesapeake Bay water column. Geological Society of America Annual meeting, Baltimore MD, USA. Nov 1- 4, 2015 (Oral)
5. Li, J. and S. Katsev. Large lakes as analogues for sediment cycling of carbon and nitrogen in coastal and deep Ocean. Ocean Science Meeting, Honolulu HI, USA. Feb. 23 – 28, 2014 (Oral)
6. Li, J. and S. Katsev. Carbon and nutrient cycling in sediments of Lake Malawi. IAGLR Conference, West Lafayette IN, USA. June 2 -6, 2013 (Oral)
7. Li, J., S. A. Crowe, D. Miklesh, D. E. Canfield, and S. Katsev. Migrations of sediment redox boundaries as indicators of change in oligotrophic systems, Goldschmidt Conference, Knoxville, Tennessee, USA. June 13- 18, 2010 (Oral)