

Curriculum Vitae

Kang Mei, PhD

Associate Professor at Jiangsu Ocean University

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🎓 Xiamen University, Doctor of Philosophy (2023)

🎓 University of Southern California US, Visiting Scholar (2022)

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PERSONAL DATA

Birthdate: Aug. 1992 Hometown: Anhui, China

RESEARCH INTERESTS

Marine biogeochemistry and earth sciences
Low-weight-molecular organic molecules
Marine microbial ecology and environment

Trace elements and heavy metals cycle
Environmental science and pollution ecology
Microbial Interactions and physiology

EDUCATION & EXPERIENCE

- 2019.9 – 2023.9 **College of Ocean and Earth Sciences, Xiamen University, Xiamen, China**
State Key Laboratory of Marine Environmental Science, Xiamen University
(GPA: 3.56/4.0)
- **Ph.D. candidate**, Marine Environmental Biogeochemistry (Expected June, 2023)
 - **Advisor:** Professor Deli Wang (deliawang@xmu.edu.cn)
 - **Research project:** Effects of microbial pigments on the diversity and functioning of marine ecosystems.
- 2021.12 – 2023.1 **Marine Environmental Biology, Dornsife College of Letters, Arts and Sciences**
University of Southern California, United States
- **Visiting Ph.D. student** (13 months)
 - **Advisor:** Professor Sergio Sanudo-Wilhelmy (sanudo@usc.edu)
Assistant Professor Laura Gomez Consarnau (gomezcon@usc.edu)
 - **Research project:** Laboratory Analysis, Data Arrangement, and Scientific Writing.
- 2018.6 – 2019.6 **College of the Environment and Ecology, Xiamen University, Xiamen, China**
• **Research assistant**, Institute of Ecological Civilization
- 2015.9 – 2018.6 **College of the Environment and Ecology, Xiamen University, Xiamen, China**
(GPA: 3.17/4.0)
- **Master**, Pollution Ecology
 - **Advisor:** Associate Professor Jingchun Liu (jingchunliu@xmu.edu.cn)
 - **Research project:** Effects of arsenic on the physiological responses of mangrove seedlings.
- 2011.9 – 2015.6 **College of the Ecology & Environment, Hainan Tropical Ocean University, China**
(GPA: 3.46/4.0)
- **B.A.** in Ecology

•**Advisor:** Professor Laijun Zhang (ldxyzhlj@126.com)

•**Research project:** Toxic effects and physiological responses of glyphosate on marine worm *Perinereis aibuhitensis*.

PUBLICATIONS

12. Kang Mei, et al., Dynamics and geochemical responses of dissolved metals (Mn and Cu) in a subtropical estuary, China, *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-023-31387-7>. (IF2023 = 5.8, JCR: Q1)
11. Kang Mei, et al., Stimulation of oxalate root exudate in arsenic speciation and fluctuation with phosphate and iron in anoxic mangrove sediment, *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2023.114823>. (IF2022 = 7.001, JCR: Q1)
10. Guirong Wu, **Kang Mei**, Caimei He, Sujuan Wang, Liling Jiang (2022). Phytoextraction and Antioxidant Defense of Mangrove Seedling (*Kandelia obovata*) to Inorganic Arsenate Exposure. *Water*, <https://doi.org/10.3390/w14040643>. (IF2022 = 3.530, JCR: Q2)
9. Yitong Pan, Deli Wang, **Kang Mei**, Tian Tang (2022). Optimization modeling and mechanism discussion on specific industrial coal-washing wastewater treatment. *International Journal of Environmental Science*, <https://doi.org/10.1007/s13762-022-04738-z>. (IF2022 = 3.519, JCR: Q3)
8. Lide Gu, Xinli Yue, Haowen Zhong, **Mei Kang**, Deli Wang (2022). A new technique of quantifying protoporphyrin IX in microbial cells in seawater, *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2022.991126>. (IF2022 = 5.247, JCR: Q1)
7. Zhenli Guo, Jingchun Liu, jiajia Wu, Dan Yang, **Kang Mei**, Hanyi Li, Haoliang Lu, Chongling Yan. (2022). Spatial heterogeneity in chemical composition and stability of glomalin-related soil protein in the coastal wetlands, *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2022.155351>. (IF2022 = 10.753, JCR: Q1)
6. **Kang Mei**, Deli Wang, Yan Jiang, Mengqiu Shi, Chen-Tung Arthur Chen, Yao Zhang, Kai Tang. (2022). Transformation, Fluxes and Impacts of Dissolved Metals from Shallow Water Hydrothermal Vents on Nearby Ecosystem Offshore of Kueishantao (NE Taiwan), *Sustainability*, <https://doi.org/10.3390/su14031754>. (IF2022 = 5.247, JCR: Q2)
5. **Kang Mei**, Wu, G., Liu, J., jiajia Wu, Hong, H., Lu, H., Yan, C. (2022). Dynamics of low-molecular-weight organic acids for the extraction and sequestration of arsenic species and heavy metals using mangrove sediments, *Chemosphere*, <https://doi.org/10.1016/j.chemosphere.2021.131820>. (IF2022 = 8.943, JCR: Q1)
4. **Kang Mei**, Jingchun Liu, Jin Fan, Xin Guo, Yi Zhou, Haoliang Lu, Chongling Yan. (2021). Low-level arsenite boosts rhizospheric exudation of low-molecular-weight organic acids from mangrove seedlings (*Avicennia marina*): Arsenic phytoextraction, removal, and detoxification. *Science of the Total Environment*. 775, 145685. <https://doi.org/10.1016/j.scitotenv.2021.145685>. (IF2021 = 10.753, JCR: Q1)

3. **Kang Mei**, Jingchun Liu, Rongrong Shi, Xin Guo, Haoliang Lu, Chongling Yan. (2020). The migrated behavior and bioavailability of arsenic in mangrove sediments affected by pH and organic acids. *Marine Pollution Bulletin*, 159, 111480. <https://doi.org/10.1016/j.marpolbul.2020.111480>. (IF2021 = 7.001, JCR: Q1)
2. Laijun Zhang, Jingfen Jia, **Kang Mei**, Deli Lin. (2015). Defend effects of melatonin on protoplasts of *Gentiana Macrophylla* under UV-B irradiation. *Journal of Nuclear Agricultural Sciences*, 29(5): 0830-0835. (In Chinese with English abstract)
1. Laijun Zhang, Jingfen Jia, Fengqin Wang, **Kang Mei** (2015). Effect of exogenous melatonin on the growth of in vitro cultured *Polygonum cuspidatum* [J]. *Jiangsu Agricultural Sciences*, 43(8): 58-60. (In Chinese)

PATENT

Kang Mei, Mengqiu Shi, Deli Wang. (2021). Method for detecting biopterin in marine water body. China Patent CN111505179B (In Chinese).

ONGOING PUBLICATIONS

1. **Kang Mei**, et al. Dynamics of seasonal microbial biopterin in estuarine and coastal waters, Southeast China. Submitted to *Marine Chemistry* (*Under Review*)
2. **Kang Mei**, et al. Dynamic effects and mechanism of microbial pterins and trace metals as bioindicator in offshore elevated CO₂ mesocosm, South China. (*In preparation*)
3. **Kang Mei**, et al. Spatial-temporal distribution and source of regulation of microbial pteridines in the euphotic layer of South China Sea. (*In preparation*)

AWARDS & HONORS

- ☐ **Merit Student Honors**. Xiamen University, 2023.
- ☐ **ICBC (Industrial and Commercial Bank of China) Scholarship Awards**. Xiamen University, 2023.
- ☐ **Scholarship for Studying Abroad**. China Scholarship Council, China, 2022.
- ☐ **National Award for Distinguished Ph.D. Student**. Ministry of Education, China, 2021.
- ☐ **Minduo International Bank Scholarship Awards**. Xiamen University, 2021.
- ☐ **First Prize in Provincial College Challenge Cup Competition**. Fujian Province, 2021.
- ☐ **First-class Scholarship Awards**. Xiamen University, 2019-2023.
- ☐ **Excellence Merit Student Honors**. Xiamen University, 2020.
- ☐ **Zhongtian Ocean Scholarship Awards**. Xiamen University, 2020.

- **Provincial Excellent Summer Social Practice Team**, Fujian Province. 2020.
- **Team Runner-up of Golf tournament**, Xiamen University, 2020.
- **First Prize of Ocean Cultural and Creative Competition**. Xiamen University, 2019.
- **Third Place in Cross-Fitness Competition**. Xiamen University, 2019.
- **First-class Scholarship Awards**. Xiamen University, 2015-2018.
- **Second-class Scholarship Awards**, Hainan Tropical Ocean University, 2012&2014
- **Merit Student Honors**, Hainan Tropical Ocean University, 2012&2014

ORAL PRESENTATION & POSTER

8. Kang Mei, Spatial-temporal Distribution and Regulatory Mechanism of Novel Biomarker Microbial Pterins in Xiamen Bay, China. The 15th UCAS Symposium, October 2023. Hong Kong, China (**Oral presentation**).
7. Kang Mei, Spatial-temporal distribution and source of regulation of microbial pteridines in the euphotic layer of South China Sea. The CESS 2023, July 2023. Shanghai, China. (**Poster**)
6. Kang Mei, Novel indicator of biopterin to interactions and perturbations associated with trace metals in estuarine and coastal waters, Southeast China. The 14th UCAS Symposium, March 2022. Taiwan, China (**Online oral presentation**).
5. Kang Mei, Mengqiu Shi, Deli Wang. Heavy metal migration, fluxes and potential impacts of submarine hydrothermal ecosystem offshore Kueishantao Islet, Taiwan. The CESS 2023, July 2021. Shanghai, China. (**Poster**)
4. Kang Mei, Mengqiu Shi, Deli Wang. Analysis of pivotal metabolic precursor-pterins in marine phytoplankton and bacteria. The 7th Symposium on Biological and Organic Geochemistry, October 2020. Beijing, China. (**Oral presentation**)
3. Kang Mei, Mengqiu Shi, Deli Wang. Development of analyzing pivotal metabolic precursor-pterins in the ocean. The Fifth MEL Graduate Forum, Xiamen University. August 2020. Zhangzhou, China. (**Oral presentation**)
2. Kang Mei, Mengqiu Shi, Deli Wang. A new method of measuring biopterin in phytoplankton and bacteria. Identification of biopterin – a key biological metabolic precursor in marine microbes. The First Marine Biological Science and Technology Graduate Forum, Xiamen University. November 2019. Xiamen, China. (**Oral presentation**)
1. Kang Mei, Mengqiu Shi, Deli Wang. A new method of measuring microbial biopterin in fresher water and coastal sea. Annual Session of MEL, Xiamen University. November 2020. Quanzhou, China. (**Poster**)