

Curriculum Vitae

Kang Mei

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🎓 Xiamen University, **Ph.D. candidate**

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Personal data:

Birthdate: August 7, 1992

Birthplace: Anhui, China

Research Interests:

Marine chemistry and analytical chemistry
Trace elements and heavy metals
Low-weight-molecular organic compounds
Pigments and fluorescent compounds
Marine microbial ecology
Microbial physiology and interactions
Environmental science and pollution ecology

Education:

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|----------------|--|
| 2019 - Present | College of Ocean and Earth Sciences, Xiamen University, Xiamen, China
State Key Laboratory of Marine Environmental Science, Xiamen University
(GPA: 3.56/4.0)
<ul style="list-style-type: none"> •Ph.D. candidate, Marine Chemistry (Expected June, 2023) •Advisor: Professor Deli Wang (deliwang@xmu.edu.cn) •Research project: Effects of microbial pigments on the diversity and functioning of marine ecosystems. |
| 2018.6-2019.6 | College of the Environment and Ecology, Xiamen University, Xiamen, China
<ul style="list-style-type: none"> •Research assistant, Institute of Ecological Civilization |
| 2015 - 2018 | College of the Environment and Ecology, Xiamen University, Xiamen, China
(GPA: 3.17/4.0)
<ul style="list-style-type: none"> •Master, Pollution Ecology •Advisor: Dr. Jingchun Liu (jingchunliu@xmu.edu.cn) •Research project: Effects of arsenic stress on physiological changes and root responses of mangrove seedlings. |
| 2011 - 2015 | College of Tropical Ecological Environment Protection
Hainan Tropical Ocean University, Sanya, China
(GPA: 3.46/4.0)
<ul style="list-style-type: none"> •B.A. in Ecology •Advisor: Dr. Laijun Zhang (ldxyzhlj@126.com) •Research project: Toxic effects and physiological responses of glyphosate on marine worm <i>Perinereis aibuhitensis</i>. |

Publications:

1. **Kang Mei**, Wu, G., Liu, J., Jiajia Wu, Hong, H., Lu, H., Yan, C. (2021). Dynamics of low-molecular-weight organic acids for the extraction and sequestration of arsenic species and heavy metals using mangrove sediments, *Chemosphere*, doi: <https://doi.org/10.1016/j.chemosphere.2021.131820>.
2. **Kang Mei**, Mengqiu Shi, Deli Wang. (2021). Detection method and process of marine bioprotein. China Patent. (In Chinese)
3. **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.
4. **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.
5. 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)
6. 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)

Submitted patent and Preparing paper:

1. **Kang Mei**, Deli Wang. Exploration of siderophile metals contribution coupled with environment processes in submarine hydrothermal ecosystem offshore Kueishantao Islet, Taiwan. (In preparation)
2. **Kang Mei**, Deli Wang. Seasonal pattern of microbial bioprotein associated with trace metals in estuarine and coastal waters. (In preparation)

Awards & Honors:

- ☐ **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 and Poster Presentation:

1. **Kang Mei**, Mengqiu Shi, Deli Wang. Heavy metal migration, fluxes and potential impacts of submarine hydrothermal ecosystem offshore Kueishantao Islet, Taiwan. July 2021. Shanghai, China. (Poster)
2. **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*)
4. **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*)
5. **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*)