

# HAO QIANG's CURRICULUM VITAE

Visiting scholar of Department of Marine and Coastal Sciences, Rutgers University, USA  
71 Dudley Road New Brunswick, NJ 08901  
Email: [ghq@vip.sina.com](mailto:ghq@vip.sina.com), [haoq@sio.org.cn](mailto:haoq@sio.org.cn)

**Last Name:** Hao

**First Name:** Qiang

**Gender:** Male

**Birth Date:** April 29th, 1979.

**Place of birth:** Sanmenxia City, Henan Province, China.

**Citizenship:** People's Republic of China.

## **Education:**

**September 1997- July 2001:** Bachelor Degree, Science in Environmental Biology, The College of Environmental Science and Resources, Shanxi University, China.

**September 2001- July 2004:** Master Degree, Science in Oceanographic Chemistry, The Second Institute of Oceanography, SOA, China.

**September 2006- June 2010:** PhD Degree, Science in Ecology, Ocean University of China.

## **Major Fields of Interest**

Marine Ecology (Primary Production Processes, Marine Carbon Cycle)

Ecological Capacity and Environmental Restoration of Mari Culture

## **Employment Records:**

**July 2004- February 2007,** The Second Institute of Oceanography, SOA, Laboratory Assistant;

**March 2007- December 2011,** The Second Institute of Oceanography, SOA Key Laboratory of Marine Ecosystems and Biogeochemistry (LMEB), Research Assistant;

**January 2012- Present,** The Second Institute of Oceanography, SOA Key Laboratory of Marine Ecosystems and Biogeochemistry (LMEB), State Key Laboratory of Satellite Ocean Environment Dynamics (SOED), Research Associate

## **Training and Visiting Records:**

**September 2004:** Attended the Water-PAM Fluorometer Application Training in East

China Normal University, Shanghai, China.

**June 2007:** Attended the Oceanographic Ecology Summer Training Class in Hong Kong University of Science and Technology, Hongkong, China.

**October 2007:** Attended the "Dragon" Remote Sensing Training, jointly organized by the European Space Agency (ESA) and the Chinese Ministry of Science, Hangzhou, China.

**April 2008:** Attended the FlowCAM systematic application training, The Second Institute of Oceanography, SOA, Hangzhou, China.

**September 2008:** Attended the ArcGIS application training in the fall held by National Marine Information Center, Tianjin, China.

**April 2009:** Attended ArcGIS application training in Spring held by National Marine Information Center, Tianjin, China.

**September 2009:** Attended the "high-resolution remote sensing data processing" Training Seminar jointly organized by the Institute of Computing, Chinese Academy of Sciences and the Institute of Remote Sensing, Chinese Academy of Sciences, Guangzhou, China.

**March 2010:** Attended the Marine ecosystem dynamics model COHERENS application training held by National Marine Environmental Forecasting Center, Beijing, China.

**July 2010:** Attended the Optical summer class and Hydrolight training, held by Sequoia Scientific Inc., University of Maine and Ocean university of China, Qingdao, China.

**October 2011-December 2011:** Attended the cooperative study of Marine Ecology Modeling, as a visiting scholar in the University of Maine, Orono, USA.

**October 2012:** Attended the In-situ FIRE application training, held by the Link-Ocean Company and the Second Institute of Oceanography, SOA, Hangzhou, China.

**February 2013-June 2013:** Attended the intensive English training program, held by the China Scholarship Council and Sichuan University, Chengdu, China.

**November 2013-January 2014:** Attended the cooperative research of the East China Sea, as a visiting scholar in the University of Maine, Orono, USA.

**November 2014-May 2015:** Attended the cooperative satellite primary production research of the East China Sea, as a visiting scholar in Nagoya University, Nagoya, Japan.

**May 2016:** Attended the advanced course "History of Earth System - From the origins of Elements to the Evolution of Intelligence", held by Tongji University, Shanghai, China.

### **Attended and Leded Projects**

1. Key Project of Zhejiang Science and Technology Department "The Study and Application of the Mari-culture Capacity in the Important Bay, Zhejiang Province", 2000-2002, worked as student.

2. Project “Research on the Physical–Biological Coupling Process of Phytoplankton Size- Fraction in the South China Sea” supported by General Program of National Science Foundation of China, 2002-2004, worked as student.

3. Project “Research on the Mari-culture Mode Optimization Strategy and Ecology Capacity in the Typical Bay” supported by Non-Commercial Program of Chinese Ministry of Science and Technology, 2002-2005, worked as research member.

4. Project “Research on the Abundance, Biomass and Production of Picoplankton in the South China Sea” supported by General Program of National Science Foundation of China, 2003-2005, worked as research member.

5. Project “Physical–Biological Coupling Process of Primary Production and Its Effect on the Carbon Cycles in the South China Sea” supported State Key Program of National Natural Science Foundation of China, 2004-2007, worked as research member.

6. Project “The study on the primary production model and its remote sensing application in the South China Sea” supported by Foundation Program for Young Scientist of State Oceanic Administration, 2005-2006, worked as project leader.

7. Project “Ecology evaluation, mechanisms and future change trend forecasts of the China shelf Seas” supported by Major State Basic Research Development Program of China (973 Program), 2006-2010, worked as research member.

8. SIO General Project “Time Series Study of Primary Production in South China Sea” supported by Scientific Research Fund of the Second Institute of Oceanography, 2007-2008, worked as project leader.

9. Project “Ecological Evaluation and Restoration in the Important Mari-culture Area” supported by National 908 Evaluation Project, 2008-2010, worked as a Co-PI.

10. Major Marine Development and Management Project of Zhejiang Province “Research and Evaluation of Mari-culture Ecology in the Yueqing Bay and Sanmen Bay”, 2008-2011, worked as research member.

11. Project “Primary Production Process and Its Effect on the Carbon Cycles in the South China Sea-Develop and Integrate” supported State Key Program of National Natural Science Foundation of China, 2008-2011, worked as research member.

12. Project “Key Process of Food Production and Its Sustainable Mechanism in the China Sea” supported by Major State Basic Research Development Program of China (973 Program), 2011-2015, worked as research member.

13. CHINARE (Chinese National Arctic and Antarctic Research Expedition) Project “Ecosystem and Biodiversity Research in the Southern Ocean” supported by Chinese Arctic and Antarctic Administration, 2011-2020, worked as research member.

14. CHINARE Project “The Arctic Ocean Comprehensive Research” supported by Chinese Arctic and Antarctic Administration, 2011-2020, worked as research member.

15. SIO Team Project “Community of Phytoplankton and Its Effect on the Primary Production in the Continental Shelf of East China Sea” supported by Scientific Research Fund of the Second Institute of Oceanography, 2012-2014, worked as project leader.

16. Project “The influence of phytoplankton size fraction and its carbon fixation on primary production in the continental shelf of Arctic Ocean” supported by National Natural Science Foundation of China, 2013-2015, worked as project leader.

## **Publications**

### Articles:

Liu Zhensheng, Cai Yuning, Liu Zilin, **Hao Qiang**. Primary production and standing stock of phytoplankton in the Sanmenwan Bay during the autumn. *Donghai Marine Science*, 2003, **21**: 30-36

Peng Xin, Ning Xiuren, Cai Yuming, **Hao Qiang**. Review of research on the Bottom-up effects of phytoplankton growth. *Journal of Marine Science*, 2006, **24**(3): 64-75

**Hao Qiang**, Ning Xiuren, Liu Chenggang, Cai Yuming, Le Fengfeng. Satellite and in situ observations of primary production in the northern South China Sea. *Acta Oceanologica Sinica*, 2007, **29**(3):59-68(In Chinese)

Liu Chenggang, Ning Xiuren, Cai Yuming, **Hao Qiang**, Le Fengfeng. Bacterioplankton production in the Zhujiang River Estuary and the adjacent northern of South China Sea. *Acta Oceanologica Sinica*, 2007, **29**(2): 112-122(In Chinese)

Le Fengfeng, Ning Xiuren, Liu Chenggang, **Hao Qiang**, Cai Yuming. Standing stock and production of phytoplankton in the northern of South China Sea during winter of 2006. *Acta Ecologica Sinica*, 2008, **28**(11):5775-5784 (In Chinese)

Ning Xiuren, Chai Fei, **Hao Qiang**. Hypereutrophication in Ngau Mei Hoi Bay, Hong Kong. *Journal of Coastal Research*, 2006, **22**(6):1565-1572 (SCI)

Cai Yuming, Ning Xiuren, Liu Chenggang, **Hao Qiang**. Distribution pattern of photosynthetic picoplankton and heterotrophic bacteria in the northern South China Sea. *Journal of Integrative Plant Biology*, 2007, **49**(3):1-5 (SCI)

Ning Xiuren, Lin Chuanlan, **Hao Qiang**, Liu. C., Le, F., Shi, J. Long term changes in the ecosystem in the northern South China Sea during 1976-2004.

*Biogeosciences Discussion*, 2008, 5, 1-43 (SCI)

Ning Xiuren, Peng Xin, Le Fengeng, **Hao Qiang**, Sun Jun, Liu Chenggang, Cai Yuming. Nutrient limitation of phytoplankton in anticyclonic eddies of the northern South China Sea. *Biogeosciences Discussion*, 2008, 5, 1-4619.(SCI)

Ning Xiuren, Lin Chuna, Su Jilan, Liu Chenggang, **Hao Qiang**. Long-term environmental changes and the responses of the ecosystems in the Bohai Sea during 1960-1996. *Deep-Sea Research II*, 2010, 57 (11) :1079-1091

**Hao Qiang**, Cai Yuming, Ning Xiuren, Liu Chenggang, Peng Xin, Tang Xuexi. Standing crop and primary production of benthic microalgae on tidal flats in the Yueqing Bay, China. *Journal of Ocean University of China*, 2011, 10(2):157-164 (SCI-E)

**Hao Qiang**, Ning Xiuren, Cai Yuming, Liu Chenggang, Le Fengfeng. The physical-biological oceanography coupling characteristics of primary production in the northern South China Sea and the influences on carbon fixation. *Journal of Marine Science*, 2011, 29(2):46-57. (In Chinese)

Le Fengfeng **Hao Qiang**, Jin Haiyan, Li Tao, Zhuang Yanpei, Liu Chenggang, Zhai Hongchang, Chen Jianfang. Size structure of standing stock and primary production of phytoplankton in the Chukchi Sea and the adjacent sea area during the summer of 2012. *Acta Oceanologica Sinica*. 2014(10):103-115 (In Chinese)

Zhou Feng, Xue Huijie, Huang Daji, Xuan Jiliang, Ni Xiaobo, Xiu Peng, **Hao Qiang**. Cross-shelf exchange in the shelf of the East China Sea. *Journal of Geophysical Research-Oceans*, 2015, 120 (3) :1545-1572

Wang Kui, Chen Jianfang, Jin Haiyan, Li Hongliang, Gao Shengquang, Lu Yong, Xu Jie, Huang Daji, **Hao Qiang**, Weng Huanxin. Summer nutrient dynamics and biological carbon uptake rate in the Changjiang River plume inferred using a three end-member mixing model. *Continental Shelf Research*, 2014, 91 :192-200

Wu Peng, Rong Bi, Shanshan Duan, Haiyan Jin, Jianfang Chen, **Qiang Hao**, Yuming Cai, Xinyan Mao, Meixun Zhao, Spatiotemporal variations of phytoplankton in the East China Sea and the Yellow Sea revealed by lipid biomarkers. *Journal of Geophysical Research- Biogeosciences*, 2016, 121, 109-125

**Hao Qiang**, Liu Chenggang, Le Fengfeng, Peng Xin, Zeng Xiangxi, Cai Yuming. Phytoplankton photosynthesis-irradiance parameters during summer and winter in the northern South China Sea. *Acta Oceanologica Sinica* 2016, 38(4):22-30

Zeng Xiangxi and **Hao Qiang**. Plankton respiration in the northern South China Sea during summer and winter. *Acta Oceanologica Sinica*, 2017 (Accepted)

**Hao Qiang**, Chai Fei, Xiu Peng, Bai Yan, Liu Chenggang and Zhoufeng. Spatial and annual variations of phytoplankton standing stock in the eastern China seas based on a new, locally modified satellite dataset. *Journal of Geophysical Research-Oceans* (In revise)

### Books:

Su Jilan and Sun Song. 2012, “Regional Oceanography of China Seas—Biological Oceanography”. *Ocean Press*, Beijing, (In Chinese). As the writer of primary production part in the Bohai Sea and East China Sea.

Wang Ying, Su Jilan and Liu Ruiyu. 2013, “China Marine Geography”. *Science Press*, Beijing, (In Chinese). As the writer of marine primary production part

### Selected Conference Participation

**Hao Qiang**, Chai Fei. January 2015. *Oral presentation*. “Spatial and annual variations of phytoplankton standing stock in the eastern China seas based on a new, locally modified satellite dataset”. the Second Xiamen Symposium on Marine Environmental Sciences. Xiamen, China

**Hao Qiang**, Joji Ishizaka, April, 2015. *Oral presentation*, “The satellite net primary production and its control mechanisms in the Changjiang Estuary, China”. The 18th Pacific-Asian Marginal Seas Meeting at Naha, Okinawa, Japan.

### Awards and Honors

2003, CHINARE-19<sup>th</sup> Antarctic Expedition, Excellent scientific staff.

2007, Marine Scientific and Technology Innovation Awards, CHINA, Honorable Mentions, the winning project is “Marine primary production process, environment control mechanism and their impacts on Chinese marine resource and environment”. (Ranked 6<sup>th</sup> of 9 winners)

2009, Marine Scientific and Technology Innovation Awards, CHINA, Meritorious Winner, the winning project is, “Primary production’s physical –biological coupling process and its effect on the carbon cycles in the South China Sea”. (Ranked 3<sup>rd</sup> of 9 winners)

2013, Selected and funded by Zhejiang Province 151 Young Talents Plan, CHINA.

2014, CHINARE-6<sup>th</sup> Arctic Ocean Expedition, Excellent scientific staff.