




Jiashun Wang

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PROFESSIONAL SUMMARY

Master's graduate in marine science with strong research experience in data analysis, numerical modeling, and programming. Skilled in Python and MATLAB, and involved in projects on marine heatwaves and wave forecasting. Experienced in academic resource management and international curriculum integration. Awarded multiple university scholarships, with solid teamwork and project coordination skills. Eager to pursue further research in physical oceanography and contribute to academic innovation at the PhD level.

EDUCATION

Harbin Engineering University (HEU)

Sept 2021 – June 2024 (Grad. June 2024)

Master of Science in Marine Science - Joint Program with the First Institute of Oceanography (FIO)

Harbin, Heilongjiang, China

• **Grade:** GPA: 3.2/4.0 (Ranked 1 out of 9 students)

• **Thesis:** Characteristics and Drivers of Marine Heatwaves in the Indonesian Seas

• **Supervisor:** Sr. Engineer Li Shujiang, Assoc. Researcher Nie Xunwei

Guangdong Ocean University (GDOU)

Sept 2017 – June 2021 (Grad. June 2021)

Bachelor of Science in Marine Science

Zhanjiang, Guangdong, China

• **Grade:** GPA: 3.6/5.0 (Ranked 9 out of 93 students, Top 10%)

• **Thesis:** Research on Wave Forecast Technology Based on Deep Learning

• **Supervisor:** Li Qiang, Sr. Engineer Jiang Lifang

EXPERIENCE

Research on Marine Heatwaves in the Indonesian Seas

July 2022 – June 2024

Collaborative student training at FIO

Qingdao, Shandong, China

- Using OISST satellite observation data to monitor marine heatwaves in the Indonesian seas and identifying long-term characteristics of the region;
- Determining the contribution of heat flux and the Indonesian Throughflow to the occurrence of marine heatwaves in the region;
- Investigating the dominant climate drivers affecting the region.

Ocean Data Monitoring

April 2021 – May 2021

Internship at Zhanjiang Marine Environment Monitoring Station

Zhanjiang, Guangdong, China

- Monitor the real-time observation data of Zhanjiang Bay for any anomalies, eliminate outlier and abnormal data, and ensure that the data is transmitted to the Zhuhai main station via the FTP protocol without issues.

Research on Wave Forecast Technology Based on Deep Learning

Feb 2021 – May 2021

Undergraduate Thesis

Zhanjiang, Guangdong, China

- Applied the EMD-LSTM algorithm to predict wave heights in Puerto Rico.
- Demonstrated the feasibility and effectiveness of the EMD-LSTM approach in wave forecasting research.

Co-Founder & Advisor

Jan 2020 – June 2021

Xinyuntian Meteorological and Oceanographic Technology Studio

Zhanjiang, Guangdong, China

- Co-established the studio leveraging the “Xinyuntian Weather” WeChat public platform, based at Guangdong Ocean University.
- Coordinated resources and collaborations among multiple universities including Nanjing University of Information Science & Technology, Ocean University of China, and Lanzhou University.
- Provided comprehensive services to the meteorological industry such as new media information dissemination, conference and exhibition organization, talent exchange, and international publishing support.

Deployment and recovery of ADCP at Zhanjiang Bay

June 2018 – June 2018

Undergraduate student participant

Zhanjiang, Guangdong, China

- Carried out a 2-day and 2-night shift rotation for ADCP deployment and recovery operations at Zhanjiang Bay.

PROJECTS

S_Tide tidal analysis toolbox documentation website

June 2025 – Present

- Created under the commission of Dr. Haidong Pan, the developer of the S_Tide tidal analysis toolbox.
- Based on GitHub and the VitePress static site generator framework (built on Vite).
- The site includes download links for the toolbox, author information, detailed descriptions of various functions, and related academic articles.
- Committed to ongoing long-term maintenance and updates to ensure the website remains current and comprehensive.

Extracurricular Physical Oceanography

Sept 2021 – Present

- Initiated the integration of international curricula to strengthen the first-year master's program, aiming to better align coursework with applied research objectives.
- Systematically collected and curated physical oceanography and marine meteorology course materials from leading universities worldwide.
- Established an open-access repository utilizing the open-source reference management software Zotero to promote transparency and facilitate academic sharing.

SKILLS

Ocean Instrumentation: ADCP (Proficient), CTD (Proficient), Ultrasonic Anemometer (Proficient), etc.

Operating Systems: Linux (Excellent), Windows (Excellent), macOS (Excellent)

Programming Languages: Python (Excellent), MATLAB (Excellent), Fortran (Proficient), C Language (Intermediate), R Language (Basic)

Numerical Modeling: SWAN wave model (Intermediate)

Cloud & DevOps: Git (Proficient), Docker (Basic)

Markup Languages: Markdown (Excellent), LaTeX (Intermediate)

Languages: Mandarin Chinese (Native), English

COURSES & CERTIFICATIONS

Google Data Analytics Professional Certificate – Google

Dec 2024 – Present

Data Analysis with R Programming – Google

Dec 2024 – Present

Neural Networks and Deep Learning – DeepLearning.AI

Dec 2024 – Present

Level 1 Certification – National Information Security Professional (NISP) Examination

Nov 2023 – Present

AWARDS

the Second-Class Graduate Academic Scholarship – Harbin Engineering University

Sept 2023 – June 2024

the Second-Class Graduate Academic Scholarship – Harbin Engineering University

Sept 2022 – June 2023

the Third-Class Graduate Academic Scholarship – Harbin Engineering University

Sept 2021 – June 2022

the Third-Class Scholarship – Guangdong Ocean University

Sept 2019 – June 2020

the Third-Class Scholarship – Guangdong Ocean University

Sept 2018 – June 2019

the Third-Class Scholarship – Guangdong Ocean University

Sept 2017 – June 2018

PART-TIME POSITIONS

Office Manager & Volunteer

Oct 2019 – June 2020

BlueRibbon Ocean Conservation Association in Guangdong Ocean University

Zhanjiang, Guangdong, China

- Strategically planned and led the Longhaitian Beach cleanup initiative in Zhanjiang, enhancing community engagement and environmental conservation efforts.
- Facilitated effective coordination and communication across multiple departments to ensure smooth operational workflow.
- Compiled and produced the comprehensive annual report highlighting key organizational milestones and events.
- Oversaw the organization and maintenance of all office documentation and records.

Deputy Liaison Officer

Sep 2022 – Jun 2024

Deputy Liaison Officer for Joint Training Graduate Students (Class of 2021)

Qingdao, Shandong, China

- Managed the collection, organization, and dispatch of academic materials for proposal, mid-term, and graduation defenses of joint training graduate students between FIO and HEU.
- Coordinated communication and party/youth league relations between the School and the Qingdao Innovation Development Base during the principal liaison officer's absence.