

# 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)

*Master of Science in Marine Science - Joint Program with the First Institute of Oceanography (FIO)* Sept 2021 – June 2024 (Grad. June 2024)

- **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)

*Bachelor of Science in Marine Science*

Sept 2017 – June 2021 (Grad. June 2021) Harbin, Heilongjiang, 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

*Collaborative student training at FIO*

July 2022 – June 2024

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

*Internship at Zhanjiang Marine Environment Monitoring Station*

April 2021 – May 2021

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

*Undergraduate Thesis*

Feb 2021 – May 2021

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

*Xinyuntian Meteorological and Oceanographic Technology Studio*

Jan 2020 – June 2021

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

*Undergraduate student participant*

June 2018 – June 2018

Zhanjiang, Guangdong, China

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

### Academic Event Volunteer

*"Multiscale Dynamic Processes in the South China Sea" Summer School Workshop*

Jan 2020 – June 2021

Zhanjiang, Guangdong, China

- Assisted in organizing and coordinating event logistics to ensure smooth operation
- Managed guest reception, distributed materials, and provided technical support
- Supported scheduling and venue setup for sessions
- Developed teamwork and communication skills

## PROJECTS

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### S\_Tide tidal analysis toolbox documentation website [Q]

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

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**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

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**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

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**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

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### 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.