Kexin Song

PERSONAL INFORMATION

MPO/RSMAS/UMIAMI

M.S. student

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EDUCATIONAL BACKGROUND

08/2018 — Present	M.S. student	**Rosenstiel School of Marine and Atmospheric Science (RSMAS)**
		Served as MPS student representative for GAC (08/2018 – 12/2018)
		Advisor: Prof. Peter J. Minnett
		Field of research: Satellite Remote Sensing
06/2018	B.Sc.	**Ocean University of China (OUC)**
		Department of Marine Technology
02/2016 — 06/2016	Exchange	**National Taiwan Ocean University (NTOU)**
		Department of Communications, Navigation and Control Engineering

INTERNSHIP EXPERIENCE

North China Sea Marine Forecasting Center of State Oceanic Administration, Qingdao

11/2017 — 12/2017   **Intern of Data & Information Service**

Supervisor: Dr. Chengcheng Qian

➢ Extracted and Summarized metadata of oceanic & meteorological data
  (Source: remote sensing, re-analysis and field observation)
➢ Compiled attributes of metadata into Word & Excel files

Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences (CAS), Beijing

06/2017 — 06/2018   **Undergraduate Research Assistant**

Supervisor: Dr. Jin Sha and Dr. Xiaoming Li

Project Topic: Classification and Assessment of Water Types via MODIS Aqua Chlorophyll-a (Chl-a) Concentration around Hainan Island

➢ Analyzed MODIS/Aqua estimated Chl-a from Jul 2002 to Jun 2017 around Hainan Island
➢ Conducted water type classification and assessment based on Chl-a concentrations
➢ Compiled report on the causes, trends and impacts of regional water quality

RESEARCH EXPERIENCE

Undergraduate Thesis: Anomalous Decrease in Passive Microwave Sea Ice Concentration (SIC) in Central Arctic: Real Variation or Misestimate?

11/2017 — 05/2018   Advisor: Prof. Jie Su

➢ Assessed consistency of three Arctic SIC products in describing low concentration phenomena
➢ Evaluated the accuracy of 12 low passive SIC processes through optical images and numerical weather data
➢ Conducted case study and analyzed the impacts of weather conditions (i.e. thermodynamics, clouds and cyclone) on passive SICs

Student Research Developing Program (SRDP), OUC, Qingdao

11/2015 — 11/2016   **Group Member**

Advisor: Dr. Yanzhen Gu

Project Topic: Establishment of Marine Remote Sensing Satellite Database
- ➢ Constructed modules of quick view images and information retrieval
- ➢ Drafted abstract, 1.2 Download and Quick View Data and 3.2 Query Tool of project paper, Wang D., Huang D., Liu H., Hu Y., Song K., Liu Z., (2017). Establishment and application of marine remote sensing satellite database. *Meteorological Hydrological and Marine Instrument*, 2017, 34(2): 40-45.

LEADERSHIP

Debate Team of School of Information Science and Engineering

09/2014 — 06/2018   **Co-leader**

- ➢ Organized school debate competitions and selected team members
- ➢ Guided and participated in university debate competitions (2015, 2016 in the top four)

EXTRACURRICULAR   ACTIVITIES

08/2019	Participant of Oceanhackweek, University of Washington, Seattle
08/2019	Participant of NASA Summer School on Satellite Observations and Climate Models, California Institute of Technology, Pasadena
01/2019	Volunteer at Hempel World Cup Series for sailing, Miami
04/2015 — 06/2015	Voluntary expositor at Qingdao Fire Services Museum, Qingdao

HONORS & AWARDS

06/2018	Excellent Graduate Award, OUC
09/2017	Outstanding Student Award, OUC
07/2017	Outstanding Summer Camper, Second Institution of Oceanography, Hangzhou
04/2017	Honorable Mention of Interdisciplinary Contest in Modeling (ICM)
10/2016	Third Prize of Shandong Division of China Undergraduate Mathematical Contest in Modeling (CUMCM)

SKILLS

Computer	➢ Fluent in: Microsoft Office, ArcGIS, ENVI, SPSS
	➢ Adept at: Python, Matlab, IDL, R
Language	➢ Mandarin Chinese as mother tongue
	➢ TOEFL 96 (Reading: 23, Listening: 23, Speaking: 24, Writing: 26)
Others	➢ Certificate for Red Cross First Aider