

# KEXIN SONG

## PERSONAL INFORMATION

NRE/UConn  
Ph.D. candidate  
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## EDUCATION

09/2020 – present	<b>University of Connecticut</b> Ph.D. student, Natural Resources and the Environment
2018 – 2020	<b>University of Miami</b> Rosenstiel School of Marine and Atmospheric Science (RSMAS) M.S. Meteorology and Physical Oceanography
2014 – 2018	<b>Ocean University of China (OUC)</b> B.S. Marine Technology
2016.02 – 2016.06	<b>National Taiwan Ocean University (NTOU)</b> Exchange student, Department of Communications, Navigation and Control Engineering

## RESEARCH EXPERIENCE

### **Research Assistant: Neal Real-time Assessment of Forest Risk to Infrastructure Using Satellite Time Series**

Advisor: Prof. Zhe Zhu

- Developed a data fusion method for Landsat (30 m) Sentinel-2 (10 m) imagery.
- Produced CT roadside and right-of-way forest disturbance and disturbance agent maps.
- Performing tree failure risk analysis using machine learning models.

### **Master Thesis: Accuracy Assessment of Summertime Reanalysis and Passive Microwave Sea-ice Concentration (SIC) Products in The Central Arctic**

Advisor: Prof. Peter J. Minnett

## CONFERENCE PRESENTATIONS

2022.12	“Forest Disturbance Monitoring at 10 m Spatial Resolution Using Sentinel-2 Time Series.”, AGU Fall Meeting, poster.
2021.12	“Improved Subtle Change Detection Using Landsat and Sentinel-2 Data Fusion: A Study of Spongy Moth Outbreaks in New England Forests.”, AGU Fall Meeting, talk.

## ACTIVITIES

2020.03	Unidata Users Workshop, University of North Carolina
2019.08	Oceanhackweek, University of Washington, Seattle
2019.08	NASA Summer School on Satellite Observations and Climate Models, NASA Jet Propulsion Laboratory (JPL), California Institute of Technology, Pasadena
2019.08	Volunteer at Hempel World Cup Series for sailing, Miami
2018.08 – 2018.12	MPS student representative at the Graduate Academic Committee

## SKILLS

- Proficient in: Matlab, Python, SQL
- Adept at: ArcGIS, ENVI, R, Google Earth Engine, Git