

## **Dr. Xiao-Hai Yan**

Mary A. S. Lighthipe Chair Professor of Marine Studies

Director, UD Center for Remote Sensing

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URL: <https://www.udel.edu/academics/colleges/ceoe/departments/smsp/faculty/xiao-hai-yan/>

Latest Award: <https://www.udel.edu/udaily/2019/may/doctoral-mentoring-award-Xiao-Hai-Yan/>

Latest Research News: <https://www.udel.edu/udaily/2021/march/remote-sensing-big-data-center-research-coastal-climate-change/>;

<https://www.udel.edu/udaily/2021/march/cooling-southern-hemisphere-ocean-global-warming-signal/>

### **(A) History of Employment**

#### **Academic Appointments**

Assistant Professor, University of Delaware, 1990-1993

Associate Professor (Tenure), University of Delaware, 1993-1995

Professor, University of Delaware, 1995-2004

Mary A. S. Lighthipe Chair Professor, University of Delaware, 2004-

#### **Other Professional Appointments**

Director, Center for Remote Sensing, University of Delaware, 2002-

Associate Director, NASA-Delaware Space Grant Program, 2005-

Co-Director, Center for Remote Sensing, University of Delaware, 1990-2001

Postdoctoral Researcher, Scripps Institution of Oceanography, UCSD, 1989-1990

Research Assistant, Marine Sciences Research Center, SUNY, Stony Brook, 1985-1989

### **(B) Degrees (Educations)**

B.S., Ocean Science, Tongji University, Shanghai, China, 1977

M.S., Remote Sensing Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, Shanghai, China, 1981

Ph.D., Satellite and Physical Oceanography, State University of New York, Stony Brook, 1989

Post Doc., Scripps Institution of Oceanography, University of California, San Diego, CA, 1989

### **(C) Research Interests & Experience**

Physical oceanography; remote sensing; coastal and climate change; air-sea interaction; ocean's role in atmosphere/climate change; image processing; environmental monitoring; data sciences, AI/machine learning, big data; interdisciplinary, multi- and trans-disciplinary research.

### **(D) Honors (Selected)**

National Presidential Faculty Fellow (PFF), White House, (through NSF) - 1994

NASA Center for Excellence Award, NASA, 1997

University of Delaware Outstanding Doctoral Graduate Advising and Mentoring Award, 2019

AGU Top 10 most downloaded paper of the year in recent AGU publication history, 2017

Best Associate Editor Award, *Science China-Earth Science*, 2015

Top Minority Scientist Award, by *Science Spectrum Magazine* Board, 2007

Distinguished Scholar, Xiamen University, 2007

"Science Spectrum Trailblazer" named by *Science Spectrum Magazine*, 2006-2012

Honorary Zhijiang Chair Professor, East China Normal University, 2006

AGU One of significant papers selected by AGU journals editors for a press release, 2002

Cheung Kong Chair Professor Award, Li Ka Shing Foundation, Hong Kong, 2000

Honorary Professorship Award, Ocean University of China, Qingdao, China-1999

Best Paper Award, 4Th Inter Conference Remote Sensing for Marine and Coastal Envir.- 1997  
Gold Star Award, International Biographical Center, Cambridge, England - 1997  
Honorary Professorship Award, Tongchi University - 1995  
Honorary Professorship Award, National Institute for Oceanic Environment Forecast -1995  
Distinguished Leadership Award for Outstanding Service to Global Change Research,ABI-1994  
Name and research reported by Science Year - 1994, 1997, 1998  
Listed in Who's Who in Science and Technology - Since 1993 annually  
NSF International Travel Award - 1991  
NASA Graduate Student Fellowship Award, NASA – 1988, 1989  
Rockefeller Institute Research Award, 1987

### **(E) Membership**

AGU, AMS, IEEE, TOS members over 35 years. US Presidential Faculty Fellow.

### **(F) Service to the community through committee work, advisory boards, etc.**

Guest Editor, [Remote Sensing] Special Issue “Ocean Monitoring Based on Artificial Intelligence and Remote Sensing”, 2023-

Guest Editor, *Nature* [Remote sensing and climate change](#) Collection, 2022-

Guest Editor, [Remote Sensing] Special Issue “Deep Ocean Remote Sensing and Its Application in the Ocean Warming Study in Recent Decades”, 2021-

Faculty Council Member, Data Science Institute, 2020-

Editor Board, *Nature* Scientific Report, 2016-

Chair, AGU/CLIVAR Global Warming “Hiatus” Working Groups and Panels, 2016-

Board Member, Universities Space Research Association (USRA), 2010-3023

US AMOC Science Team Member, 2009-

US CLIVAR SSC/POS Panel Member, 2009-

Guest Editor, Remote Sensing, Special Issues “Observing the Ocean’s Interior from Satellite Remote Sensing”, “AI Ocean Remote Sensing”, “Deep Ocean Remote Sensing” 2013,2021,2022

Panel Member, Frontier Science, National Academy of Sciences, 1996-

Numerous Conference Organizers, Session Chairman, Invited Talks, and Keynote Speakers.

Numerous NASA, NSF, NOAA Proposals and Fellowships Review Panels.

Many Ad Hoc Committee Members or Chairs, NASA, NOAA, etc. (e.g., TOGA-COARE).

NOAA Surface Roughness Science Team Member, 1995-

NASA Ocean Vector Winds Team Member & Topography Science Team Member, 1995-

Working Group Member, Consortium for Oceanographic Research and Education, 1995-

Testified at U.S. Senate on Global Climate Change and Oceans, Washington, D.C., 1992

### **(G) Products**

4 US Patents, over 349 scientific publications, 226 in peer-reviewed scientific journals (please see my 77-page full CV or web page link for journal publications at:

<https://sites.udel.edu/ceoe-xiaohai/publications/>).

### **(H) Education and Outreach Contributions**

- Total graduate students advised over 76, postdoctoral over 18, many undergraduates.

- Many graduate, undergraduate courses, outreach educational seminar series developed.

- Recipient of the latest University of Delaware Outstanding Doctoral Graduate Advising and Mentoring Award in 2019 (see link below for details):

<https://www.udel.edu/udaily/2019/may/doctoral-mentoring-award-Xiao-Hai-Yan/>

### **(I) International Collaborations**

Served on numerous international collaboration taskforces, committees, and panels.