

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

Mary A. S. Lighthipe Chair Professor of Oceanography

Director, UD Center for Remote Sensing

Associate Director, NASA-Delaware Space Grant

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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/>

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### **(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; environmental data sciences; coastline and people; interdisciplinary, multi- and trans-disciplinary research.

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

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

NASA Center for Excellence Award, NASA, 1997

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  
National Presidential Faculty Fellow (PFF), White House, (through NSF) - 1994  
Honorary Professorship Award, SOA, China – 1994  
Name and research reported by Science Year - 1994, 1997, 1998  
Name and research reported by The World Book Encyclopedia Year Book – 1994  
Listed in Who's Who in Science and Technology - Since 1993 annually  
Listed in American Men and Women of Science - 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. US Presidential Faculty Fellow.

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

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-  
US AMOC Science Team Member, 2009-  
US CLIVAR SSC/POS Panel Member, 2009-  
Editor, International Journal of Oceanography, 2008-  
Guest Editor, Remote Sensing, Special Issues “Observing the Ocean’s Interior from Satellite Remote Sensing”, “AI Ocean Remote Sensing”, “Deep Ocean Remote Sensing” 2007, 2013,2021  
Panel Member, Frontier Science, National Academy of Sciences, 1996-  
Board Member, ABI Research Board of Advisors, 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 Scatterometer/Altimeter Science Team Members, 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 328 scientific publications, 204 in peer-reviewed scientific journals, please see a separate 2-page selected bibliography and/or web page link for more selected journal publications at: <https://sites.udel.edu/ceoe-xiaohai/publications/>

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

- Total graduate students advised over 60, postdoctoral over 15, 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 for collaborations among US, Europe, and China.