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| Research Interests | Climate dynamics & ocean/atmosphere coupling. Impact of climate variability and change on hydroclimate and extreme events. Predictability and prediction of climate and its regional impacts. |
| Education | Ph.D. Physical Oceanography Apr., 2000 University of Washington Seattle, WA Thesis title: "Sub-seasonal wind variability and El Niño" M.S. Applied Mathematics Feb. 1999 University of Washington Seattle, WA M.S. Physical Oceanography Dec. 1996 University of Washington Seattle, WA B.A. Mathematics May 1994 Rutgers University New Brunswick, NJ |
| Professional Experience | Oct. 2012 – Present Head of Climate Variations and Predictability Group NOAA – Geophysical Fluid Dynamics Laboratory <i>Lead a group of scientists in developing and implementing prediction methodologies, including the timely delivery of experimental seasonal forecast results, and in long-lead research towards cutting edge understanding and prediction on weekly to decadal timescales of large-scale, regional and extreme phenomena. Develop the multi-year research and implementation strategy of group.</i> Jun. 2006 – Present Research Oceanographer Princeton, NJ NOAA – Geophysical Fluid Dynamics Laboratory July 2012 – Present Lecturer Princeton, NJ Princeton University, Dept. of Geosciences, Progr. in Atmospheric and Oceanic Sciences May. 2010 – June 2012 Visiting Research Collaborator Princeton, NJ Princeton University, Program in Atmospheric and Oceanic Sciences Nov. 2003 – Jun. 2006 UCAR Visiting Scientist Princeton, NJ NOAA – Geophysical Fluid Dynamics Laboratory May 2001 – Nov. 2003 Research Scientist Seattle, WA University of Washington, Joint Institute for the Study of the Atmosphere and Oceans May 2000 – Apr. 2001 Postdoctoral Research Associate Seattle, WA University of Washington, Department of Atmospheric Sciences / JISAO Sep. 1994 – Apr. 2000 Research Assistant Seattle, WA University of Washington, School of Oceanography Oct. 1993 – Sep. 1994 Research Assistant New Brunswick, NJ Institute for Marine and Coastal Sciences, Rutgers University Jun. 1993- Aug. 1993 Summer Research Fellow New Brunswick, NJ Institute for Marine and Coastal Sciences, Rutgers University |
| Teaching Experience | Fall Semesters 2010-11 to present Lecturer Princeton, NJ Princeton University, Geosciences 425 – Introductory Physical Oceanography. Fall Semesters 2012, 2013 Lecturer Princeton, NJ Princeton University, Geosciences 503 – Responsible Conduct of Research in Geosciences. Sep. 2004 – Jan. 2005 Lecturer New Brunswick, NJ Rutgers University, Environmental Sci. 323 – Atmospheric Thermodynamics. |

**Awards
Received**

NOAA's Office of Oceanic and Atmospheric Research Dr. Daniel L. Albritton Outstanding Science Communicator Award for 2014.

U.S. Department of Commerce Silver Medal *"for implementing the North American Multi-Model Ensemble to put timely and useful seasonal forecast information into the hands of decision-makers,"* 2015.

U.S. Department of Commerce Gold Medal *"for outstanding research, leading to improved capability to predict seasonal-to-decadal variations in regional hydrological conditions and extremes,"* 2014.

Thompson Reuters "Highly Cited Researchers" List 2014 & 2015, in recognition for ranking among to 1% of researchers for most cited documents Geosciences over 2002-2012 and 2003-2013.

NOAA Administrator's Award *"for scientific expertise, leadership and outstanding contributions to the Fifth Assessment report of the Intergovernmental Panel on Climate Change,"* 2014.

American Meteorological Society Clarence Leroy Meisinger Award *"for outstanding contributions to the understanding of tropical climate variability and change,"* 2013.

U.S. Department of Commerce Gold Medal *"for excellence in research and data stewardship leading to a more confident assessment of the influence of human-induced climate change on hurricanes,"* 2011.

Presidential Early Career Award for Scientists and Engineers (PECASE) *"for fundamental contributions concerning the roles of subseasonal variability on the onset and termination of El Niño and on Indian Monsoon rainfall,"* 2004-09.

AGU Editor's Citation for Excellence in Refereeing for Geophys. Res. Lett., 2008

NOAA Research Outstanding Paper of the Year, 2007

AGU Editor's Citation for Excellence in Refereeing for Geophys. Res. Lett., 2004

NASA Space Grant Scholarship, 1994-1996

Cook College, Rutgers University Marine Sciences Student of the Year, 1994

New Jersey Department of Education Garden State Scholar Scholarship, 1990-1994

**Academic
Committees**

Justin Ng, Princeton Univ., AOS Program, Ph.D. Thesis Advisor, Expected 2019

Jane Baldwin, Princeton Univ., AOS Program, Ph.D. Thesis Advisor, Expected 2017

Jeffrey Strong, Princeton Univ., AOS Program, Ph.D. Thesis Advisor. Expected 2016

Kityan Choi, Princeton Univ., AOS Program, Ph.D. Thesis Advisor. August 2015

Ian Lloyd, Princeton Univ., AOS Program, Ph.D. Thesis Advisor. May 2011

Maofeng Liu, Princeton Univ., Civ. & Envir. Eng., Ph.D. Committee Member, Expected 2018

Jie He, U. of Miami, RSMAS, Ph.D. Committee Member. August 2015.

Jonghum Kam, Princeton Univ., Civ. & Envir. Eng., Ph.D. Committee Member, Mar. 2015

Julie Kalansky, Rutgers U., IMCS, Ph.D. Committee Member, Sep. 2014

Anthony DeAngelis, Rutgers U., Dept. Envir. Sci., Ph.D. Committee Member, Mar. 2014

Angela Colbert, Univ. of Miami, RSMAS, Ph.D. Committee Member. November 2013

Christine Standohar, Univ. of Miami, RSMAS, M.S. Committee Member. May 2012

Pedro DiNezio, Univ. of Miami, RSMAS, Ph.D. Committee Member. Mar. 2011

Daiwei Wang, Columbia University, Ph.D. Defense Examining Committee. Sep. 2010

**Synergistic
Activities**

NOAA 2015 El Niño Rapid Assessment Tiger Team
Houghton Lecturer, Department of Earth and Planetary Sciences, MIT. Oct.-Nov. 2014
Lead Author for Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC)
Contributing Author for Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC)
NOAA-OAR Climate Observing Systems Council (2009-present)
U.S.-CLIVAR Working Group on Hurricanes and Climate (Co-Chair, 2010-2013)
U.S.-CLIVAR Predictability, Prediction, and Applications Interface Panel (2009-2012)
CLIVAR Asian/Australian Monsoon Panel (2008-2013)
CLIVAR Indian Ocean Panel (2007-2013)
Associate Editor, Journal of the Atmospheric Sciences (2007-present)
Associate Editor, Journal of Climate (2008-present)
Book Review Editor, Int. J. of Climate Change Strategies and Management (2009)
AGU/TOS/ASLO Ocean Sciences 2006 Meeting Scientific Organizing Committee
Judge 2005 NAACP ACT-SO Academic Competition
Scientist in Residence, Exploratorium Museum, San Francisco, CA (Dec. 2011, May 2012)
American Geophysical Union. American Meteorological Society. The Oceanography Society.
American Association for the Advancement of Science.

**Professional
Organizations**

Languages

Fluent in Spanish (lived in Venezuela from age 1 to 14) and Italian. Working knowledge of French. Learning Swedish.