

Name: **Emilia Kyung Jin** (Kyung Chin on passport)  
Title: Assistant Professor  
Department of Atmospheric, Oceanic and Earth Sciences (AOES),  
College of Science, George Mason University (GMU), Virginia, USA  
Center for Ocean-Land-Atmosphere studies (COLA), Maryland, USA  
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### ▷ PROFESSIONAL PREPARATION

1. Ph.D. Earth and Environmental Sciences, 2005, Seoul National University
2. M.S. Earth and Environmental Sciences, 2001, Seoul National University
3. B.S. Atmospheric Sciences, 1999, Seoul National University, Seoul, South Korea

### ▷ APPOINTMENTS

1. Aug. 2008 – Current, **Assistant Professor** (tenure-track), Department of Atmosphere, Ocean, and Earth Sciences (AOES), George Mason University, also affiliated with Center for Ocean-Land-Atmosphere studies (COLA)
  - 1) Teaching:
    - CLIM 101 - Weather, Climate, and Global Society (Fall 2008)
    - CLIM 791/GEOG 670 - Topics in Climate Dynamics/ Applied Climatology (Spring 2008)
    - CLIM 996 - Doctoral Reading and Research (Fall 2006)
  - 2) Research Interests:
    - Climate Change and Global Warming
    - Climate Dynamics and Modeling, Predictability of Climate System, ENSO and monsoon
    - Multi-Model Ensemble Seasonal Prediction System Development for Asia-Pacific Economic Cooperation (APEC) Climate Center (APCC), Busan, Korea
    - Dynamical Seasonal Prediction Studies for Targeted Training Activity at The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
2. Aug. 2006 – Jul. 2008, **Assistant Research Professor**, Department of Climate Dynamics (merged to AOES in July 2008), GMU, also affiliated with COLA
3. Mar.2005 – Jul.2006, **Post Doctoral Research Scientist**, Department of Climate Dynamics, affiliated with COLA
4. Mar. 1999 – Feb. 2005, **Research/Teaching Assistant**, School of Earth and Environmental Sciences, Seoul National University, Seoul, South Korea

### ▷ RESEARCH GRANT

- Jan 2009 – Dec 2013, **Co-Investigator** (funded)  
Title: Predictability of the Physical Climate System (Sponsor: National Science Foundation)
- Aug 2008 – Sep 2009, **Principal Investigator** (pending)  
Title: US-Korea Workshop on Dynamical Seasonal Prediction (Sponsor: National Science Foundation)
- Mar 2006 – Dec2008, **Principal Investigator** (funded)  
Title: APCC International Project: Predictability of Coupled GCM Forecasts (Sponsor: APCC and Univ. of Hawaii)

### ▷ PROFESSIONAL ACTIVITIES

1. Mar 2005 – Current, **Representative of George Mason University/COLA**, APCC Working Group (WG)
2. 6 – 9 May 2008, **National Science Foundation invited as a ‘Young Scientist’**, World Meteorological Organization (WMO)/World Climate Research Programme (WCRP)/World Weather Research Programme (WWRP)/International Geosphere-Biosphere Programme (IGBP)/ World Modelling Summit for Climate Prediction, European Centre for Medium-Range Weather Forecasts (ECMWF), Reading, United Kingdom
3. Aug 2006. – Current, **Member of Admission Committee**, Department of AOES, George Mason University

### ▷ PROFESSIONAL EXPERIENCES

1. Sep 2007 – Oct 2007, **Visiting Scientist**, APEC Climate Center, Busan, South Korea
2. Nov 2005, **Visiting Scientist**, APEC Climate Center, Busan, South Korea
3. Jan 2004 – Feb 2004, **Visiting Scientist**, International Pacific Research Center (IPRC), University of Hawaii at Manoa, Honolulu, HI 96822, USA
4. Apr 2003 – Jul 2003, **Visiting Scientist**, NASA/Goddard Space Flight Center (GSFC), Greenbelt, USA
5. Aug 2008, **Guest Lecturer**, Targeted Training Activity: Seasonal Predictability in Tropical Regions at The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
6. Aug 2007, **Guest Lecturer**, Targeted Training Activity: Seasonal Prediction in South Asian Monsoons at The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
7. Aug 2006, **Guest Lecturer**, Targeted Training Activity: Course on Seasonal Predictability in Tropical Regions: Research

and Applications at The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy

8. Oct 2007, *Invited Seminar*, Pusan National University, Busan, Korea

9. Oct 2007, *Invited Seminar*, APEC Climate Center, Busan, South Korea

10. Jul 2006, *Invited Seminar*, Environmental Modeling Center (EMC)/National Center for Environmental Prediction (NCEP)/National Oceanic and Atmospheric Administration (NOAA), Camp Springs, USA

11. Mar 2006, *Invited Seminar*, Seoul National University, Seoul, Korea

12. Mar 2006, *Invited Seminar*, Yonsei University, Seoul, Korea

13. Jun 2005, *Invited Seminar*, NASA/Goddard Space Flight Center (GSFC), Greenbelt, USA

14. Feb 2005, *Invited Seminar*, Center for Ocean-Land-Atmosphere studies, MD 20705, USA

#### ▷ REFERRED JOURNAL PAPERS

**Jin, E. K.**, J.-S. Kug, F.-F. Jin, J. L. Kinter III, J.-J. Luo and T. Yamagata, 2008: Two flavors of El Niño and its predictability. *Geophys. Res. Lett.* (submitted).

**Jin, E. K.**, J. L. Kinter III, and B. P. Kirtman, 2008: Impact of tropical SST on the Asian-Australian monsoon in GCM experiments. *J. Climate* (submitted).

**Jin, E. K.**, J. L. Kinter III, B. Wang, C.-K. Park, I.-S. Kang, B. Kirtman, J.-S. Kug, A. Kumar, J.-J. Luo, J. Schemm, J. Shukla and T. Yamagata, 2008: Current status of ENSO prediction skill in coupled ocean-atmosphere models. *Climate Dynamics*, DOI 10.1007/s00382-008-0397-3

**Jin, E. K.**, and J. L. Kinter III, 2008: Characteristics of tropical Pacific SST predictability in coupled GCM forecasts using the NCEP CFS. *Climate Dynamics*, DOI 10.1007/s00382-008-0418-2.

Zhou, T., B. Wu, A. Scaife, Lijuan Li, A. Fischer, A. Voldoire, B. Wang, C. Folland, D. Fereday, F. Kucharsk, J. Kinter, **E. K. Jin** and co-authors, 2008: The CLIVAR C20C Project. Part 3: Which components of the Asian-Australian Monsoon variability are forced and reproducible? *Climate Dynamics* (revised).

Wang, B., J.-Y. Lee, J. Shukla, I.-S. Kang, C.-K. Park, A. Kumar, B. Kirtman, B. Wang, **E. K. Jin**, and co-authors, 2008: Assessment of APCC/CliPAS 14-Model Ensemble Retrospective Seasonal Prediction (1980-2004). *Bulletin of the American Meteorological Society* (in print).

Kucharski, F., A. Scaife, J. Yoo, C. Folland, J. Kinter, D. Fereday, A. Fischer, **E. K. Jin**, and co-authors, 2008: The CLIVAR C20C Project. Part2: Skill of simulating Indian monsoon rainfall on interannual to decadal timescale. Does GHG forcing play a role? *Climate Dynamics*, DOI 10.1007/s00382-008-0462-y

Scaife, A., F. Kucharsk, C. K. Folland, J. Kinter, D. Fereday, A. Fischer, S. Grainger, **E. K. Jin**, and co-authors, 2008: The CLIVAR C20C Project. Part 1: Selected 20<sup>th</sup> century climate events. *Climate Dynamics*, DOI 10.1007/s00382-008-0451-1.

**Jin, E. K.**, 2006: Predictability of coupled GCM forecasts: NCEP CFS, CliPAS, and DEMETER. *National Weather Services Science & Technology Infusion Climate Bulletin*, on 10/12/2006.

Kang, I.-S., **E. K. Jin**, and K.-H. An, 2006: Secular increase of seasonal predictability for the 20th century, *Geophys. Res. Lett.*, 33, L02703, doi:10.1029/2005GL024499. **Feb 2006 AGU Journal Highlights.**

Wang B., Q. Ding, X. Fu, I.-S. Kang, **K. Jin**, J. Shukla, F. Doblas-Reyes, 2005: Fundamental challenge in simulation and prediction of summer monsoon rainfall, *Geophys. Res. Lett.*, **32**, L15711, doi:10.1029/2005GL022734.

Waliser, D. E., **K. Jin**, I.-S. Kang, and W. F. Stern, 2003: AGCM simulations of intraseasonal variability associated with the Asian summer monsoon. *Climate Dynamics*, vol. 21, 423-446.

Kang, I.-S., **K. Jin** and co-authors, 2002: Intercomparison of atmospheric GCM simulated anomalies associated with the 1997/98 El Niño. *Journal of Climate*: vol. 15, 2791–2805.

Kang, I.-S., **K. Jin** and co-authors, 2002: Intercomparison of the climatological variations of Asian summer monsoon precipitation simulated by 10 GCMs. *Climate Dynamics*, vol. 19, 383-395.

#### ▷ PAPERS PRESENTED AT CONFERENCES AND WORKSHOPS

[Invited] Jagadish Shukla and **Emilia K. Jin.**: The necessity and the possibility of revolutionizing seamless prediction of weather and climate. *4th APEC Climate Center Symposium*. 19-21 Aug 2008, Lima, Peru

[Invited] **Jin, E. K.**: Seasonal predictability and prediction studies in COLA. *4th APEC Climate Center Symposium: Member Working Group Meeting*. 19-21 Aug 2008, Lima, Peru

[Invited] **Jin, E. K.**: Seasonal predictability and prediction studies in COLA. *3rd APEC Climate Center Symposium: Member Working Group Meeting*. 18-20 Sep 2007, Busan, Korea

[Invited] **Jin, E. K.**: ENSO Predictability in coupled GCM forecasts. *2nd APEC Climate Center Symposium: Member Working Group Meeting*, 15-16 Sep 2006, Busan, Korea

[Invited] **Jin, E. K.**, J. Shukla, J. L. Kinter III, and B. Kirtman: SST predictability of CGCMs. Coordinated Observation and Prediction of the Earth System (COPES) Task Force for Seasonal Prediction (TFSP)-THORPEX Workshop on Seasonal Prediction, 22-24 Aug 2005, ICTP, Trieste, Italy