

Curriculum Vitae
Jin-Sil Hong

Northern Gulf Institute, Mississippi State University
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EDUCATION

Sep. 2016 ~ Aug. 2022	Hanyang University Department of Marine Sciences and Convergent Technology Ph.D Student (Integrated PhD) Advisor: Prof. Sang-Wook Yeh	Seoul, Korea
Mar. 2012 ~ Aug. 2016	Hanyang University, ERICA Division of Science & Technology, College of Science & Technology Bachelor of Science in Environmental Marine Science Honors: <i>cum laude</i> (GPA 3.79/4.5)	Ansan, Korea

RESEARCH EXPERIENCES

Sep. 2022 ~ Present	Postdoctoral Associate Northern Gulf Institute (NGI) at Mississippi State University (MSU) and NOAA's Atlantic Oceanographic and Meteorological Laboratory (AOML) Supervisor: Andrew Mercer (MSU-NGI), Advisor: Hosmay Lopez (NOAA-AOML) Co-advisor: Sang-Ki Lee (NOAA-AOML), Dongmin Kim (NOAA-AOML)	FL, USA
Jan. 2020 ~ Feb. 2020	Visiting Scientist Climate and Radiation Laboratory, NASA's Goddard Space Flight Center Supervisor: Kyu-Myong Kim, Advisor: Young-Kwon Lim	MD, USA
Jan. 2015 ~ Feb. 2016	Undergraduate Internship Climate and Radiation Laboratory, NASA's Goddard Space Flight Center Supervisor: Young-Gyu Park	Ansan, Korea

RESEARCH INTEREST

Inter-basin interaction, Extratropical-tropical Interactions, Decadal Climate Variability, Ocean-Atmosphere Interactions, Climate Variability & Extremes, Future Climate Change

PEER-REVIEWED PUBLICATIONS

Hong, J., Seo, S., Jeon, C., Park, J. H., Park, Y. G., & Min, H. S. (2016). Evaluation of temperature and salinity fields of HYCOM reanalysis data in the East Sea. *Ocean and Polar Research*, 38(4), 271-286.

Hong, J. S., Yeh, S. W., & Seo, K. H. (2018). Diagnosing physical mechanisms leading to pure heat waves versus pure tropical nights over the Korean Peninsula. *Journal of Geophysical Research: Atmospheres*, 123(14), 7149-7160.

- Yeh, S. W., Won, Y. J., **Hong, J. S.**, Lee, K. J., Kwon, M., Seo, K. H., & Ham, Y. G. (2018). The record-breaking heat wave in 2016 over South Korea and its physical mechanism. *Monthly Weather Review*, 146(5), 1463-1474.
- Yeh, S. W., Lee, E. H., Min, S. K., Lee, Y. H., Park, I. H., & **Hong, J. S.** (2021). Contrasting factors on the trends in hot days and warm nights over Northern Hemisphere land during summer. *Weather and Climate Extremes*, 34, 100389.
- Hong, J. S.**, Yeh, S. W., & Yang, Y. M. (2021). Inter-basin interactions between the Pacific and Atlantic Oceans depending on the phase of Pacific decadal Oscillation and Atlantic multi-decadal oscillation. *Journal of Climate*, 1-38.

MANUSCRIPT IN PREPARATION AND REVISION

- Hong, J. S.**, Yeh, S. W., Yang, Y. M., Lim, Y. K., Kim, K. M. : Understanding the weakening of in-phase relationship of the Pacific Decadal Oscillation and Indian Ocean Basin mode during boreal winter.
- Hong, J. S.**, Yeh, S. W., Park, J. H. : Non-stationary ENSO-IOD relationship modulated by the Atlantic Multi-decadal Oscillation
- Hong, J. S.**, Yeh, S. W., Lim, Y. K., Kim, K. M. : The relationships between the Atlantic and Pacific depending on the two types of AMO

INTERNATIONAL CONFERENCES

- Jin-Sil Hong** and Sang-Wook Yeh : Non-stationary ENSO-IOD relationship modulated by the Atlantic Multi-decadal Oscillation. American Geophysical Union (AGU) Fall Meeting 2021, Online, Dec., 2021. (Poster)
- Jin-Sil Hong**, Sang-Wook Yeh and Young-Min Yang: Understanding the impact of the Atlantic Multi-decadal Oscillation on the Pacific Decadal Oscillation. The 101st *American Meteorological Society(AMS)* Annual Meeting, Online, Jan., 2021. (Poster)
- Jin-Sil Hong**, Sang-Wook Yeh and Young-Min Yang: Understanding the inter-basin interactions of the Atlantic Multi-decadal Oscillation and the Pacific Decadal Oscillation. American Geophysical Union (AGU) Fall Meeting 2020, Online, Dec., 2020. (Poster)
- Jin-Sil Hong** and Sang-Wook Yeh: Understanding a non-stationary relationship between PDO and IOBM in the observation. The 100th *American Meteorological Society(AMS)* Annual Meeting, Boston, United States of America, Jan., 2020. (Poster)
- Jin-Sil Hong** and Sang-Wook Yeh: Understanding the atmospheric responses in different phases of PDO, AMO, and IOBM in East Asia. American Geophysical Union (AGU) Fall Meeting 2018, Washington, D.C., United States of America, Dec., 2018. (Poster)
- Jin-Sil Hong** and Sang-Wook Yeh: Difference of atmospheric field between Heat waves and Tropical nights in Korea. The 14th Annual Meeting of the Asia Oceania Geosciences Society (AOGS), Suntec City, Singapore, Aug., 2017. (Poster)

AWARDS AND HONORS

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| 2022 | Best Poster Award in Climate Session, Korean Meteorological Society Spring Conference |
| 2018 | Research Assistant Scholarship, Hanyang University, Korea |
| 2017 | Teaching Assistant Scholarship, Hanyang University, Korea |
| 2017 | Living Expenses Scholarship, Hanyang University, Korea |
| 2016 | Graduation with honors: <i>cum laude</i> , Hanyang University, ERICA, Korea |
| 2016 | Merit Based Scholarship, Hanyang University, ERICA, Korea |
| 2012 ~ 2015 | Honor Scholarship, Hanyang University, ERICA, Korea |

SKILL & ACTIVITIES

Tools NCL, Matlab

Languages Korean, English

Scientific Memberships AGU, AMS, AOGS, KMS, KSO