CHAEHYEONG LEE

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RESEARCH INTERESTS

Physical Oceanography
- Upper ocean mixing processes
- Geofluid dynamics
- Air-sea interactions

Ocean Dynamics and Climate Sciences
- Role of the ocean in the climate change
- Ocean's heat budget and its change
- General circulation

EDUCATION

M.S. in Atmospheric Sciences *Mar. 2022 - Aug. 2023*
Yonsei University, Seoul, Republic of Korea
Advisor : Prof. Hajoon Song
Thesis: The Increasing Trend of Persistence of Sea Surface Temperature Anomalies due to Oceanic Processes

B.S. in Atmospheric Sciences *Mar. 2016 - Feb. 2022*
Yonsei University, Seoul, Republic of Korea *Cumulative GPA 3.92/4.3*
Graduation ranking (for 4years) : 3/33 *major GPA 4.03/4.3*

EXPERIENCES

Research Experiences
Master's Degree Researcher *Aug. 2023 - present*
Air-Sea Modeling lab., Yonsei University, (PI: prof. Hajoon Song)

Research Assistant *Dec. 2020 - Aug. 2023*
Air-Sea Modeling lab., Yonsei University, (PI: prof. Hajoon Song)
Combined Bachelor's-Master's Program

Teaching
Teaching Assistant
- Climate & Civilization (undergraduate course) *spring 2023*
- Physical Oceanography (undergraduate course) (in English) *fall 2022*

Others
Military services *Apr. 2018 - Nov. 2019*
Republic of Korea Army

AWARDS & SCHOLARSHIPS

- High Honors (for High Academic Performance), Yonsei University *Feb. 2022*
- Full tuition scholarship for merit (18.6M KRW), Yonsei University *Mar. 2022 - Aug. 2023*
- Jilli Scholarship (2.3M KRW) (for High Academic Performance), Yonsei University *Jun. 2020 - Jun. 2021*

PUBLICATIONS

Submitted to Nature (under review)

Chaehyeong Lee, Hajoon Song, Yeonju Choi, Ajin Cho, and John Marshall, Observed multi-decadal increase in the surface ocean's thermal inertia, https://doi.org/10.21203/rs.3.rs-3834500/v1 (preprinted)

In process

Chaehyeong Lee & Hajoon Song, Changes in global ocean's negative heat flux rate

PRESENTATIONS

Chaehyeong Lee, Hajoon Song, Ajin Cho, and Yong-jin Tak, The increasing trend of persistence of sea surface temperature in the past 40 years, AGU Fall meeting, Chicago, Illinois, US (poster) *Dec. 2022*

Chaehyeong Lee, Hajoon Song, Ajin Cho, and Yong-jin Tak, Increasing persistence of sea surface temperature anomaly and duration of marine heatwaves, The Korean Society of Oceanography Spring conference, Jeju, Korea (oral) *Jun. 2022*

TECHNICAL SKILLS

Programming	Python Julia
Software & Tools	MITgcm MATLAB

PATENT

Hajoon Song & Chaehyeong Lee, Evaluation System and Method of persistence of Sea Surface Temperature anomalies using autocorrelation coefficient and Arctangent regressive model, Republic of Korea Patent Application 10-2022-0157159 *Nov. 2022*