Yoori Cho

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CURRENT POSITION:

Postdoctoral researcher, Environmental Planning Institute, Seoul National University, Korea

EDUCATION

Doctor of Urban Planning (Advisor: Dr Sujong Jeong)

- Thesis title: A prognostic estimation of limited-visibility risk for honey bee (*Apis mellifera*) under increasing emission of atmospheric particulate matter
- Climate Lab, Graduate School of Environmental Studies, **Seoul National University, South Korea (Graduated in Aug 2023)**

Master of Education (Advisor: Dr Dowon Lee)

- Thesis title: 'Love honey, hate honeybees': reviving biophilia of elementary school students through an environmental education program.
- EcoLab, Graduate School of Interdisciplinary Program in Environmental Education, **Seoul National University, South Korea (Graduated in Aug 2014)**

Bachelor of Science

University of Waikato, New Zealand (Graduated in Aug 2012)

- Undergraduate researcher at Pallud Lab, University of California – Berkeley during the fall semester of 2011

PUBLICATION

Published

[6] Lee, S.,.. Cho, Y. et al (2025). Long-Term Assessment of Plant Phenology in South Korea (2009~2024), Atmosphere. 35(4): 549-561.

[6] Kim, J.,.. Cho, Y. et al (2025). Decreasing annual pollen loads in evergreen needleleaf species (Pinaceae) by the earlier end of the spring pollen season, Agricultural and Forest Meteorology. 373

[5] Cho, Y. et al (2024). Rising atmospheric levels of fine particulate matter reduce the degree of linear polarisation of light, Communications Earth & Environment. 5, 517.

[4] Cho, Y. et al. (2021). Foraging trip duration of honeybee increases during a poor air quality episode and the increase persists thereafter. Ecology and Evolution, 11(4): 1492-1500.

[3] Cho, Y., Kim, J. & Lee, D. (2018). Comparison of Water Infiltration and Retention Capacity in a Forest Soilof Different Surface Depression Patterns. Journal of Korean Society of Forest Science, 107(1): 108-111

[2] Cho, Y., Lee, D. & Bae, S. (2017). Effects of vegetation structure and human impact on understory honey plant richness: implications for pollinator visitation, Journal of Ecology and Environment, 41:2. doi: 10.1186/s41610-016-0020-1

[1] Cho, Y., & Lee, D. (2017). 'Love honey, hate honeybees': reviving biophilia of elementary school students through an environmental education program. Environmental Education Research, 1-16. doi:10.1080/13504622.2017.1279277

CONFERENCE PRESENTATIONS (Award)

[25] Cho, Y. & Jeong, S. (Nov 4-7, 2025). Hemispheric convergence with growing local temporal instability in spring onset. Korean Meteorological Society.

[24] Cho, Y. & Jeong, S. (Dec 9-13, 2024). Unstoppable Spread: The Rise of the Subtropical *Vespa velutina* (Asian yellow-legged hornet) in Korean and French Latitudes. Ecological Society of Australia 2024.

[23] Cho, Y. & Jeong, S. (Apr 24-25, 2024). Future Perspective of Air Pollution and Urbanization on the Pollination of Bees in Asia. 3rd Workshop of Asian Urban Forests Networks (AUFN) for People & Environment.

[22] Cho, Y. & Jeong, S. (Dec 11-15, 2023). Different trends in night-time warming contribute to or prevent advancements in leaf unfolding over the Northern Hemisphere. AGU Fall meeting 2023.

[21] Cho, Y. & Jeong, S. (Nov 13-17, 2023). Future air quality under SSP3-70 and its impact on clear-sky visibility for honey bees. IAMC 2023.

[20] Lee, J., Shin, J., Jeong, S., Cho, Y. & Paek, J. (July 17-20, 2023). Understanding the Impact of Climate Change on Honey bee Homeostasis and Pollination Dynamics. The 10th EAFES International Congress.

[19] Paek, J., Cho, Y. & Jeong, S. (July 17-20, 2023). The color change of petals and its association with urbanization. The 10th EAFES International Congress.

[18] Cho, Y. & Jeong, S. (Oct 20. 2022). Changes in contribution of daytime and night-time warming on springonset of vegetation in the Northern Hemisphere. Korean Meteorological Society.

[17] Paek, J., Cho, Y. & Jeong, S. (Oct 20. 2022). Changes in floral pigmentation under the effects of urbanization. Korean Meteorological Society.

[16] Cho, Y. & Chang, D. & Jeong, S. (Apr 28. 2022). Global changes in limited visibility of honeybees under increasing PM2.5 mass concentration in 2050. Korean Meteorological Society.

[15] Cho, Y. & Chang, D. & Jeong, S. (Oct 13. 2021). Impacts of future global air quality on navigation of honeybees. Korean Meteorological Society

[14] Cho, Y., Jang, F. & Han, Z. (Aug 11. 2017). Habitat Suitability of locations at Mt. Umyeon for *Parnassiusbremer*. The Ecological Society of Korea.

[13] Cho, Y., Kim, J. & Eom, K. (Feb 18. 2017). Estimation of forest aggregate supply in accordance with a growth in housing demand. The Ecological Society of Korea.

[12] Cho, Y. & Lee, D. (Dec 12. 2016). Pollination Services at Risk: Anthropogenic Aerosol Degrades Floral UV Absorption. American Geophysical Union Fall 2016.

[11] Cho, Y., Kim, J. & Lee, D. (Aug 11. 2016). Different soil pitting patterns: a simple way to enhance infiltration and retention of water for forest soil. The Ecological Society of Korea.

[10] Cho, Y., Kim, J., Yoon, S., Lee, M. & Lee, D. (Sep 17. 2015). Ecological alternative: effects of rooftop garden on foraging of honeybee in urban landscape. Apimondia 2015.

[9] Cho, Y., Kang, J., Kim, S., Ahn, S., Oh, S. & Lee, E. (June 13. 2015). SLE of youth and the role of TEMM Youth Forum as an effective place for environmental education that enables the SLE to be sustainable. The Korean Society for Environmental Education.

[8] Kang, J., Cho, Y., Kim, S., Ahn, S., Oh, S. & Lee, E. (June 13. 2015). Building Connections with Nature: 2015 Tripartite Environment Ministers Meeting Youth Forum. The Korean Society for Environmental Education.

[7] Cho, Y., Bae, S., Lee, E., Lee, M. & Lee, D. (Feb 27. 2015). Correlation between environmental factors andforaging activity of Apis mellifera in forest. The Ecological Society of Korea.

[6] Lee, M., Bae, S., Lee, E., Cho, Y. & Lee, D. (Feb 27. 2015). Relationship between beetles (Coleoptera: Carabidae) and vegetation in forests of the Soyang watershed. Korean Society of Environmental Biology.

[5] Cho, Y. & Lee, D. (Nov 2. 2014). An investigation into elementary school students' environmental disgust sensitivity and connectedness to nature using the case of a honeybee experiential education program. The Korean Society for Environmental Education.

[4] Cho, Y., Bae, S., Lee, E. & Lee D. (Feb 21. 2014). Study on distance convergence between species in accordance with trait combinations for functional diversity assessment. The Ecological Society of Korea.

[3] Cho, Y. & Yun, S. (Feb 19. 2014). A study on assurance of the right of residence for people living in the vicinity of nuclear power plants: In the perspective of J. Rawls' Theory of Justice. Korea Environmental Policy and Administration Society.

[2] Nam, M., Kim, T. & Cho, Y. (July 14. 2013). Development and application of backyard-gardening programsfor elementary school students. The Korean Society for Environmental Education.

[1] Cho, Y. (Oct 13. 2013). A study on assurance of the right of residence for people living in the vicinity of nuclear power plants. The First Seoul National University Project on Human Right Research.

RELEVANT SKILLS & PROFICIENCY

Remote-sensing and Earth System Model data analysis

- Landsat, MODIS, AVHRR, etc.
- CMIP6, ECHAM5/MESSy atmospheric climate chemistry model, etc.

Ground observation & monitoring

- Ground-based imaging polarimetry
- Radio-frequency identification system (RFID)

Image analysis

- UV reflectance photography
- Spectrometer: Ocean Optics Jaz Spectrometer

Programming language

- R
- Python
- Matlab (Basic)

Language

- Korean (Native)
- English (Fluent)
- Chinese (Basic)
- Japanese (Basic)

GRANT & SCHOLARSHIP (Principal investigator)

[5] World Wildlife Fund

[4] National Research Foundation of Korea – (As a principal investigator) "Pollinators at risk: anthropogenic air pollution may impede bee foraging." (35,000 USD)

[3] National Geographic Foundation for Science and Exploration – Asia. "Pollination services at risk – Asian dust poses a threat on plant-pollinator interaction." (5,000 USD)

[2] The First Seoul National University Project on Human Right Research Grant (1,200 USD)

[1] Alumni Scholarship. Graduate School of Environmental Studies, Seoul National University

PRIOR EMPLOYMENT

Apr-Jul 2015	Researcher at Center for Appropriate Technology, Institute for Sustainable Development, Korea
Jan 2014 – Mar 2015	Researcher at Center for Education, Institute for Sustainable Development, Korea

PROFESSIONAL ACTIVITIES

Editorial Advisory Board

2025-present Global Change Biology Communications

Journal Reviewer

2021-present Environmental Education Research

2023-present Current Opinion in Insect Science

2023-present Asia Pacific Journal of Education

2024-present Ecosphere

2024-present Global Change Biology

Advisory

Feb 2015 Invited as a referee board of Global Youth for the Environment Ministers Meeting

Apr 2015 Invited as a youth representative. 17th Tripartite Environment Ministers Meeting (Korea-China-Japan)

Symposium convenor and chair

Jun 2024 Asia Oceania Geosciences Society 2024 BG04 session (Phenology and climate change)

PUBLIC SERVICE & OUTREACH

2013-2014 Volunteer docent at *Kyujanggak* Institute for Korean Studies, Seoul National University, South Korea

Sep-Dec 2011 Volunteer science teacher, Bay Area Scientists in Schools (BASIS), CA, USA

OTHER ACTIVITIES

Jun 2013 Completed a course in Landscape Tree Management, Seoul National University Botany Clinic

REFERENCES

Available upon request