

DAHEE AHN

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PROFESSIONAL SUMMARY

I am a goal-driven entomologist who published 「Landscape Trees in Ohio, the United States-Dahee's Fantastic Plants and Where to Find Them」 with synthetic and analytical experience with insects, as well as, plants. Combined with my experience, I have a firm understanding of analytical method optimization of various insect pests including insect population genetics, and insect molecular biology. My passion is integrating interdisciplinary approaches to solving multifaceted scientific problems. Though I have studied insects that harm plants so far, from now on, I have the desire to study and research insects such as bees, that save plants.

RESEARCH INTEREST

- Insect molecular biology, Insect physiology
- Bee population genetic
- Bee preservation from diseases and climate change
- Entomopathogens (pests, parasites, pathogens, viruses etc.) of beneficial insects
- Pest control and pesticide science

EDUCATION

2017	B.A. Major GPA Thesis	Korea National University of Agriculture and Fisheries Department of Forestry and Landscape Architecture 4.45/4.5 Production and processing of Pecan
2023	ESL	The Ohio State University American Language Program

TEACHING EXPERIENCE

2017	Assistant lecturer: Special lecture for the future generation Introduction of Korea International Cooperation Agency (KOICA) and Global Citizenship Education
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WORK AND RESEARCH EXPERIENCES

2022

(Mar-Sep) **Researcher**

Warm Temperate and Subtropical Forest Research Center, National Institute of Forest Science

- Manage and facilitate insect pests and rare forest plant diseases
 - Identify and control insect pests in a greenhouse of Rare Forest Life Resources at WTSE, Conservation gardens
 - Investigate and collect insects and diseases in vegetation survey habitat
 - Examine eclosion of Japanese pine sawyer(*Monochamus alternatus*) which transmits *Bursaphelenchus xylophilus* to pine and collect them
 - Execute experiments to determine the change of pine with the passage of time, when putting the Japanese pine sawyer with *Bursaphelenchus xylophilus* into a pine house
 - Breed and culture Western conifer seed bug(*Leptoglossus occidentalis*), *Megymenum gracilicorne*, Buprestidae *sp.*, Timberman beetle(*Acanthocinus aedilis*), Convolvulus hawk-moth(*Agrius convolvuli*), Tea bagworm(*Enmetia minuscula*), and etc.
- Administer specimen preparation and curation
 - Conduct mounting and scan for Index Herbarium, and build a database of plant specimen
- Investigate rare forest plants in Jeju-island

2021

Research Assistant

Forest Entomology and Pathology Division, National Institute of Forest Science

- Determine the correlation of occurrence patterns between physiological and ecological characteristics of major forest insect pests and diseases
 - Analyzed damage rate on stmphyta *sp.*(unidentified species in South Korea) on Korean Fir
 - Investigated an eclosion rhythm and distribution of Vector of *Bursaphelenchus xylophilus* which transmits Pine wilt disease
 - Contributed to flight experiment of Japanese pine sawyer
 - Determined life span identification and temperature development experiment
 - Winter mortality test and temperature growth test of Gypsy moth which is an outbreak and polyphagous insect pest
- Investigated insect pest distribution across the country and bred insects for experiments:
 - Gypsy moth(*Lymantria dispar*), Western conifer seed bug(*Leptoglossus occidentalis*), Japanese walking-stick(*Baculum elongatum*), Japanese pine sawyer(*Monochamus alternatus*)
- Performed experiment to assess insect sensitivity to organic pesticides and fungi
 - Tested entomopathogenic effects of Green muscardine fungus on Gypsy moth, Japanese walking-stick, and Japanese pine sawyer
 - Conducted experimental comparison of Japanese walking stick which is pleophagous and abhorrent to people by applying organic or non-organic pesticides
- Carried out molecular identification using DNA barcoding and build a database of insect specimen

2018 **Intern**

**The Ohio Program, The Ohio State University's Internship Program
Oakland Nurseries Delaware, Ohio**

- Coordinated different types of tree management
 - Controlled tree diseases and insect pests
 - Consulted clients on plants that are suitable for different environments
 - Developed planting plans for downtown landscaping projects and festival preparation
- Participation in Cultivate of AmericanHort with The Ohio Program

PUBLICATION

2022 Landscape Trees in Ohio, the United States – Dahee's Fantastic Plants and Where to Find Them
Dahee Ahn

AWARDS

2021 Korea Forest Service Minister's Award
2020 President of KNUAF's Award
Excellence Prize of Presentation Contest for Internship
· \$300 + Overseas short-term training program to Singapore

SCHOLARSHIPS

2019 Merit-based scholarship: Fall semester tuition
2017 Merit-based scholarship: Academic year tuition
Admission with the highest distinction: Overseas training program in Japan & China

OTHER CREDENTIALS

2021 Certificate of Achievement: Tree care expert course: Korean International Society of Arboriculture
2020 Certificate of Expertise: Engineer Plant Protection: Rural Development Administration
2018 Certificate of Achievement: International Program in Agriculture, The Ohio Program
The Ohio State University

LIST OF SKILLS

- Bilingual: English & Korean
- Microsoft Excel, Word, PowerPoint
- Polymerase chain reaction (PCR) & Electrophoresis
- Dissecting Microscope, Optical Microscope, Scanning Electron Microscope, Soft X-ray