

# Ikju Park

1041 Buchanan St. Albany, CA, USA, 94706 | (828) 767-3215 | ikjupark@knu.ac.kr

## Education

Ph.D. in Entomology, August 2017

Major: Entomology, specialized in biological control of invasive plants and electrophysiology

GPA: 3.98 out of 4.0

M.S. in Agricultural Biology, May 2010

Major: Agricultural Biology, specialized in molecular identification on cryptic biocontrol agents

Minor: Experimental Statistics

GPA: 3.86 out of 4.0

B.S. in Agricultural Biology, August 2007 (graduated in seven semesters)

Major: Agricultural Biology, specialized in molecular phylogenetics on agricultural pests

GPA: 3.86 out of 4.0

## Professional Experience

- |              |  |
|--------------|--|
| 2022-2026    | <b>Executive Committee (Treasurer)</b> ,<br>International Organization for Biological Control<br>Asia-Pacific Regional Section (IOBC-APRS).<br><a href="https://www.aprs.iobc.info/about.html">https://www.aprs.iobc.info/about.html</a>   |
| 2022-current | <b>Academic Vice Chairman</b> , Korean Society of Environmental Biology.   |
| 2021-current | <b>Assistant Professor in Biological Control of Invasive Insects and Weeds</b> ,<br>Kyungpook National University, School of Applied Bioscience,<br>Insect Sensory and Behavioral Ecology Laboratory (ISABEL),<br>Daegu, the Republic of Korea.<br><a href="https://goisabelgo.wordpress.com">https://goisabelgo.wordpress.com</a> |
| 2019-2021    | <b>Volunteer</b> , United States Department of Agriculture-Agricultural Research<br>Service (USDA-ARS) Western Regional Research Center, Invasive Species<br>and Pollinator Health Research Unit, Albany, CA, USA.   |
| 2019-2021    | <b>Postdoctoral Researcher</b> , University of California at Davis, Department of<br>Entomology and Nematology, Davis, CA, USA.  |
| 2018-2020    | <b>Honorary Scientist and Advisor</b> , National Institute of Agricultural Science<br>and Technology, Rural Development Administration, the Republic of Korea.   |
| 2017-2019    | <b>Research Entomologist</b> , New Mexico State University, Department of<br>Entomology, Plant Pathology and Weed Science, Las Cruces, NM, USA.  |

- 2017-2019      **Scientific Advisor**, Ghost Moths Laboratory, Australia.
- 2016-2017      **Feed Industry Administrator**, North American Edible Insect Coalition, Asheville, NC, USA.
- 2016-2017      **Chief Entomologist**, Bitwater Farms, Asheville, NC, USA.
- 2001-2002      **Research Internship**, National Institute of Agricultural Science and Technology, Rural Development Administration, the Republic of Korea.

### **Grants (funded: \$564,578; submitted: \$980,411)**

---

#### Funded

- 2022-present      CABI-Switzerland. Title: *Bionomics of biological control agents for box tree moths in Korea*. PI: **Ikju Park**, 9,300 CHF.
- 2021-2022      CABI-Switzerland. Title: *Surveying potential parasitoids for box tree moths in Korea*. PI: **Ikju Park**, 6,000 CHF.
- 2018-2020      USDA NRCS. Title: *Influence of mesquite herbicide treatment on soil health and potential native biological control agents*. PIs: David C. Thompson, **Ikju Park**, and Eric Lehnhoff, \$225,000. Agency contract number: NR188C30XXXXC003
- 2018      International Organization of Biological Control Travel Award for XV International Symposiums of Biological Control of Weeds. **Ikju Park**, \$604.
- 2017-2019      USDA/APHIS/CAPS. Title: *Yellow and Malta Starthistle Biological Control*. PIs: David C. Thompson and **Ikju Park**, \$48,375.
- 2017-2019      USDA/APHIS/CAPS. Title: *Toadflax and Leafy Spurge Biological Control*. PIs: David C. Thompson and **Ikju Park**, \$35,199.
- 2017-2019      USDA/APHIS/CAPS. Title: *Russian Knapweed Biological Control*. PIs: David C. Thompson and **Ikju Park**, \$125,100.
- 2012-2015      USDA FS Biological Control of Invasive Native and Non-Native Plants. Title: *Using Mogulones borrhaginis, a potential biocontrol agent for houndstongue, to develop host specificity testing methods based on olfactory and visual host selection behavior*. PIs: **Ikju Park**, Mark Schwarzländer, and Sanford D. Eigenbrode, \$115,000.

#### Not funded

- 2020      USDA ARSX 2020. Title: *Accelerating production of new biological*

*control agents of weeds*. Team: Lincoln Smith, **Ikju Park**, Thomas Coudron, Franklin Arthur, William Morrison, and George Yocum, \$100,000. Finalists, <https://www.ars.usda.gov/oc/arsx/arsx2020/>

- 2019 USDA FS Biological Control of Invasive Native and Non-Native Plants.  
Title: *Developing new biological control agents for African rue*.  
PIs: David C. Thompson and **Ikju Park**, \$211,429.
- 2018 Agricultural Experiment Station/New Mexico Chile Association Proposal  
Title: *Detecting asymptomatic chile diseases using simultaneous plant volatile profiling*. PIs: David C. Thompson, **Ikju Park**, and Soum Sanogo, \$107,704.

## Publications

### In preparation (\*: corresponding author)

**Park I\***, Schwarzlander M, Eigenbrode SD, Harmon BL, Hinz HL, and Schaffner U. (2023) Non-destructive environmental safety assessment of threatened and endangered plants in weed biological control.

### Under review (\*: corresponding author)

**Park I\*** (2023) Ultraviolet mark and recapture application enhances the pre-release risk assessment for weed biocontrol agents. *Biocontrol*.

**Park I\*** and Thompson DC. (2023) Speed-accuracy tradeoff of gravid twig girdlers on honey mesquite. *Journal of Asia-Pacific Entomology*.

### Published

Acharya R, Lee JY, Hwang HS, Kim MK, Lee SY, Jung HY, **Park I**, and Lee KY\*. (2022) Identification of entomopathogenic fungus *Metarhizium rileyi* infested in fall armyworm in the cornfield of Korea, and evaluation of its virulence. *Archives of Insect Biochemistry and Physiology*, e21965.

Smith L\* and **Park I**. (2022) Diapause development of *Ceratapion basicorne* (Coleoptera: Apionidae), a prospective biological control agent of yellow thistle. *Environmental Entomology*, 51:71-76.

**Park I\*** and Smith L. (2021) Topical application of synthetic hormones terminated reproductive diapause of a univoltine weed biological control agent. *Insects*, e12090834.

**Park I\*** and Thompson DC. (2021) Host recognition by *Rhinocyllus conicus* of floral scents from invasive and threatened thistles. *Biological Invasions*, 23:1663-1668.

**Park I\*** and Thompson DC. (2019) Delineating the *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae): Possible biological control agents of honey mesquite. *Environmental Entomology*, 48:2042-1048.

**Park I\***, Sanogo S, Hanson SF, and Thompson DC. (2019) Molecular identification of *Botryosphaeria dothidea* as a fungal associate of the gall midge *Asphondylia prosopidis* on mesquite in the United States. *BioControl*, 64:209-219.

**Park I\***, Schwarzländer M, Hinz HL, Schaffner U, and Eigenbrode SD. (2019) A simple approach to evaluate behavioral responses of insect herbivores to olfactory and visual cues simultaneously: the double stacked y-tube device and portable volatile collection system. *Arthropod-Plant Interactions*, 13:139-149.

**Park I\*** and Thompson DC. (2018) Unisexual broods of *Asphondylia* species in new floral bud galls on mesquite in New Mexico. *Southwestern Entomologist*, 43:585-589.

**Park I\***, Eigenbrode SD, Cook SP, Harmon BL, Hinz HL, Schaffner U, and Schwarzländer M. (2018) Examining olfactory and visual cues governing host-specificity of a weed biological control candidate species to refine pre-release risk assessment. *BioControl*, 63:377-389.

Park HJ, **Park I**, Lee SY, Han KS, Yang CY, Boo KS, Park KT, Lee JW, and Cho SW\*. (2008) Molecular identification of *Adoxophyes orana* complex (Lepidoptera: Tortricidae) in Korea and Japan. *Journal of Asia Pacific Entomology*, 11:49-52.

## Patents

---

Title: *Tropical Fish Tank Having Insect Rearing Container*. Korea Intellectual Property Rights Information Service International Classes: A01K 63/00 | A01K 63/04 | A01K 67/033  
Application Number: 10-2007-0001000 Reservation Number: 10-0853514-0000

Title: *Liquid-Food Container for Fancy Insects*. Korea Intellectual Property Rights Information Service International Classes: A01K67/033 | A01K 5/01 Application Number: 10-2006-0130056  
Registration Number: 10-0780880-0000

## Teaching and Outreach

---

2023 Spring	Undergraduate students: TBA, Graduate students: TBA <ol style="list-style-type: none"> <li>1. Areawide IPM (3 credits, n=TBA, <b>lectured in English</b>)</li> <li>2. Biological Control (3 credits, n=TBA, <b>lectured in English</b>)</li> <li>3. Introductory Biostatistics (3 credits, n= TBA)</li> </ol>
2022 Fall	Undergraduate students: 146, Graduate students: 18 <ol style="list-style-type: none"> <li>1. Global Pest Management (3 credits, n=18, <b>lectured in English</b>)</li> <li>2. Introduction to Applied Bioscience (1.5 credits, n=77)</li> <li>3. Crop Pest Management (1.5 credits, n=51)</li> <li>4. Special Topic in Medical Entomology (3 credits, n=18)</li> </ol>
2022 Spring	Undergraduate students: 131, Graduate students: 18 <ol style="list-style-type: none"> <li>1. Areawide IPM (3 credits, n=11, <b>lectured in English</b>)</li> </ol>

2. Introduction to Life Science (1.5 credits, n=109)
  3. Horticultural Pest Management (1.5 credits, n=11)
  4. Graduate Seminar in Applied Entomology (3 credits, n=18)
- 2021 Fall Undergraduate students: 157, Graduate students: 0
1. Global Pest Management (3 credits, n=14, **lectured in English**)
  2. Introduction to Applied Bioscience (1.5 credits, n=101)
  3. Crop Pest Management (1.5 credits, n=42)
- 2018 **Park I**, Vessels H. Common insects in Chihuahuan Desert, Desert Hills Elementary School, Las Cruces, NM, USA (n=80)
- 2015 **Park I**. The world of walking sticks, Westpark Elementary School, Moscow, ID, USA (n=65)
- 2015 **Park I**. Common garden insects in Idaho and Washington, Westpark Elementary School, Moscow, ID, USA (n=72)
- 2015 **Park I**. How to become an entomologist, Success by 6 of the Palouse, Moscow, ID, USA (n=15)
- 2014 **Park I**. Technology transfer workshop for biological control of Houndstongue, Idler's Rest Nature Preserve. Palouse Land Trust, Moscow, ID, USA (n=30)
- 2014 **Park I**, Schwarzländer M. 1-day technology transfer field workshop: Weed Biological Control for the Navajo Tribal Nation. Crownpoint, NM, USA (n=25)
- 2014 **Park I**, Schwarzländer M. 1-day technology transfer field workshop: Weed Biological Control, Navajo Tribal Nation. Window Rock, AZ, USA (n=15)
- 2014 **Park I**, Schwarzländer M. 1-day technology transfer field workshop: Weed Biological Control, Navajo Tribal Nation. Chinle, AZ, USA (n=9)
- 2014 **Park I**, Schwarzländer M. 1-day technology transfer field workshop: Weed Biological Control, Navajo Tribal Nation. Dennehotso, AZ, USA (n=12)
- 2014 **Park I**, Schwarzländer M. 1-day technology transfer field workshop: Weed Biological Control, Navajo Tribal Nation. Shiprock, NM, USA (n=7)
- 2013 **Park I**, Joel P. Insect diversity in Idaho, Moscow Middle School. Moscow, ID, USA (n=60)
- 2013 **Park I**. The world of walking sticks, Lewis-Clark Early Childhood Program. Moscow, ID, USA (n=43)

- 2013                    **Park I.** Common butterflies in Idaho and Washington, Lewis-Clark Early Childhood Program, Moscow, ID, USA (n=50)
- 2012                    **Park I.** The world of walking sticks, Lewis-Clark Early Childhood Program Moscow, ID, USA (n=45)
- 2008-2009            **Park I.** Insects, Humans, and the Environment (EPWS 325V). Teaching Assistant for 2008 Fall and 2009 Spring, New Mexico State University, Las Cruces, NM, USA (n=120)

### **Selected Presentations**

---

#### Invited Conference/Symposia

Kim SH, Kim SH, Kim M, Kwon O, and **Park I.** (2022) Cues associated with host recognition of *Bactrocera depressa* (Diptera: Tephritidae). National Entomological Society of America (ESA) meeting, Vancouver, Canada.

**Park I.** (2022) Implementing classical biological control of pests in Korea. Korean Society of Applied Entomology, Gyeongju, the Republic of Korea.

**Park I.** (2022) Apparent competition on invasive and threatened thistles: its implication on classical biological control of weeds in Korea. Korean Society of Applied Entomology, Byeonsan, the Republic of Korea.

Acharya R, Malekera MJ, Lee JY, Lee SY, **Park I.**, and Lee KY. (2022) Invasion of *Spodoptera frugiperda* into Korea and identification of entomopathogenic fungus *Metarhizium rileyi* as a potential biological control agent. International Organization of Biological Control, International Working Group of Orsrinia and other maize pests (virtual meeting).

**Park I** and Kim S. (2022) Evaluating the apparent competition of phytophagous insects for invasive plant management. Korean Society of Environmental Biology, Gunsan, the Republic of Korea.

**Park I.** (2022) Implementing sensory ecology to the host recognition of *Asphondylia* spp. and their fungal associates. Online international seminar on gall midge-fungal association, Saga University, Japan (virtual meeting).

**Park I.**, Smith L, Coudron T, and Yocum G. (2021) Advances and challenges on mass-rearing a univoltine weed biocontrol agent in a laboratory. The Second International Congress in Biological Control (ICBC2), Davos, Switzerland (or virtual meeting).

Smith L and **Park I.** (2021) A newly approved biological control agent for yellow starthistle: the rosette weevil, *Ceratapion basicorne*. Western Society Weed Science (virtual meeting).

**Park I.** (2020) Weed-insect interactions in integrated weed management, UC Davis Weeders, Davis, CA, USA (virtual meeting).

**Park I** and Thompson DC. (2020) Host recognition by *Rhinocyllus conicus* of floral scents from invasive and threatened thistles. National ESA Meeting, (virtual meeting).

**Park I** and Thompson DC. (2019) Predicting non-target attacks of biological control in invasive plant management: Insect host recognition. New Horizons in Harmful Organisms, Busan, the Republic of Korea.

**Park I**, Eigenbrode SD, Hinz, HL, Schaffner U, and Schwarzläender M. (2016) Bimodal host-finding studies improve environmental safety assessments of a weed biocontrol candidate, the weevil *Mogulones borraginis* on *Cynoglossum officinale*. XXV International Congress of Entomology, Orlando, FL, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2015) Does multimodal repellency contribute to host specificity of the weed biological control agent, *Mogulones borraginis*? National ESA Meeting, Minneapolis, MN, USA.

**Park I** and Schwarzläender M. (2015) The potential role of olfactory and visual cues associated with the host recognition of *Mogulones borraginis*. National ESA Meeting, Minneapolis, MN, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2014) The potential roles of conspecific body odors and plant volatiles in unmated *Mogulones borraginis* (Coleoptera: Curculionidae). National ESA Meeting, Portland, OR, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2014) The effects of plant volatile organic compounds and conspecific body odors on the host location of the seed-feeding weevil, *Mogulones borraginis*. National ESA Meeting, Portland, OR, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2014) Investigating the role of flowers and their scents in the host selection of the seed-feeding weevil, *Mogulones borraginis* L. 3<sup>rd</sup> Northern Rocky Invasive Plant Council, Spokane, WA, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2013) Investigating olfactory and visual cues in the host selection of houndstongue seed-feeding weevils (*Mogulones borraginis*). National ESA Meeting, Austin, TX, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2013) Cross-modal repellency to assess the environmental safety of *Mogulones borraginis* L. National ESA Meeting, Austin, TX, USA.

**Park I**, Schwarzläender M, and Eigenbrode SD. (2012) New tools to improve pre-release host range prediction of *Mogulones borraginis*, a biocontrol agent for houndstongue. National ESA Meeting, Knoxville, TN, USA.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2012) Assessing the importance of flowers and their scents in the host selection of the seed-feeding weevil, *Mogulones borraginis*. National ESA Meeting, Knoxville, TN, USA.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2011) Assessing olfactory and visual cues in host selection behavior to improve pre-release host range prediction of *Mogulones borraginis* (Coleoptera: Curculionidae) for houndstongue. National ESA Meeting, Reno, NV, USA.

**Park I**, Schwarzländer M, and Hinz HL. (2010) Chemical ecology tools to improve prediction of the host range of *Mogulones borraginis*, a potential biocontrol agent for houndstongue. 2<sup>nd</sup> Northern Rockies Invasive Plant Council, Coeur d'Alene, ID, USA.

Published Meeting Abstracts (\*: undergraduate students)

Thompson DC, **Park I**, and Bowers K. (2022) Mesquite twig girdler, *Oncideres rhodosticta*: Should spillover during high population densities limit biological control potential? National ESA meeting, Vancouver, Canada.

**Park I** and Smith L. (2020) Biocontrol of yellow starthistle: Mass-rearing the newly approved agent, *Ceratapion basicorne*, for release. California Invasive Plant Council, virtual meeting. <https://vimeo.com/604315096>

Katherine A, Thompson DC, **Park I**, and Blackwell L. (2020) Evaluating volatile organic compounds emitted from male and female pecan weevils, *Curculio caryae* Horn (Coleoptera: Curculionidae). Southwestern Branch ESA meeting, Oklahoma City, OK, USA.

Thompson DC, **Park I**, Lara D, and Mercado AR\*. (2019) Mesquite twig girdler, *Oncideres rhodosticta*, response to volatile organic compounds from hosts – does spillover limit biological control potential? Southwestern Branch ESA meeting, Tulsa, OK, USA.

**Park I** and Thompson DC. (2019) Host recognition of *Rhinocyllus conicus* to volatile organic compounds from endangered and invasive thistles. Southwestern Branch ESA meeting, Tulsa, OK, USA.

Arnold K\*, **Park I**, Thompson, DC, Castanon J\*, and Johnson, T. (2019) Evaluating volatile organic compounds emitted from male and female pecan weevils from eastern New Mexico. Southwestern Branch ESA meeting, Tulsa, OK, USA.

Mercado AR\*, **Park I**, Thompson DC, and Lara D. (2019) Sexual identification of *Oncideres rhodosticta* using sexual dimorphism analysis and dissections. Southwestern Branch ESA meeting, Tulsa, OK, USA.

**Park I**, Schwarzländer M, Eigenbrode SD, Cook S, Hinz HL, and Schaffner U. (2018) Integrating sensory ecology to complement pre-release risk assessments for biological control candidates. XV International Symposium on Biological Control of Weeds, Engelberg, Switzerland.



**Park I**, Schwarzländer M, Eigenbrode SD, Hinz HL, and Schaffner U. (2014) Bringing biological cues from the field into the lab: integration of multimodal cues to assess the environmental safety of *Mogulones borraginis*. XIV International Symposium of Biological Control of Weeds, Kruger National Park, South Africa.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2014) Crossmodal integration to assess the environmental safety of *Mogulones borraginis*. Pacific Branch ESA meeting, Tucson, AZ, USA.

Cooper L\*, Natesway J\*, **Park I**, and Schwarzländer M. (2013) A case of indigenous specialist herbivore (*Gnophaela vermiculata*) as a potential biological control agent for invasive houndstongue (*Cynoglossum officinale*). The Annual Meeting of the Wildlife Society of Virginia, Smith Mountain Lake, VA, USA.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2012) Assessing olfactory and visual cues in host selection behavior to improve pre-release host range prediction of *Mogulones borraginis* (Coleoptera: Curculionidae) for houndstongue. Pacific Branch ESA Meeting, Portland, OR, USA.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2011) The use of chemical ecology to improve pre-release and post-release host range assessments for potential and released biological control agents of *Cynoglossum officinale*. XIII International Symposium of Biological Control of Weeds, Waikoloa, HI, USA.

**Park I**, Schwarzländer M, and Eigenbrode SD. (2011) Chemical ecology approaches for the host range assessment of *Mogulones borraginis*, a biocontrol agent for houndstongue. Pacific Branch ESA Meeting, Waikoloa, HI, USA.

**Park I**, Beuhler H, Sanogo S, and Thompson DC. (2010) Biology of *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae) and its fungal associates: potential biological control candidates for South African mesquite. Southwestern Branch ESA Meeting, Cancun, Mexico.

**Park I** and Thompson DC. (2009) Phylogeny of mesquite gall midge complex in the southwestern U.S. and its relationship with ambrosia fungi. National ESA Meeting, Indianapolis, IN, USA.

**Park I**, Thompson DC, Sanogo S, and Beuhler H. (2009) Biology of *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae) and its fungal associates: potential biological control candidates for South African mesquite. National ESA Meeting, Indianapolis, IN, USA.

**Park I**, and Thompson DC. (2009) Phylogeny of mesquite gall midge complex (Diptera: Cecidomyiidae). Southwestern Branch ESA Meeting, Stillwater, OK, USA.

**Park I**, Beuhler H, and Thompson DC. (2009) Molecular phylogeny of *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae) in the Southwestern U.S. Graduate Research and Art Symposium, New Mexico State University, Las Cruces, NM, USA.

**Park I**, Beuhler H, and Thompson DC. (2008) Molecular identification of *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae) in the Southwestern U.S. National ESA Meeting, Reno, NV, USA.

**Park I**, Sanogo S, and Thompson DC. (2008) Possible relationship between mesquite gall midges (*Asphondylia* spp.) and ambrosia fungi. Graduate Research and Art Symposium, New Mexico State University, Las Cruces, NM, USA.

**Park I**, Sanogo S, and Thompson DC. (2008) Possible relationship between mesquite gall midges (*Asphondylia* spp.) and ambrosia fungi. Southwestern Branch ESA Meeting, Fort Worth, TX, USA.

### **Mentoring Activities**

---

2022	Kyungpook National University Academic advisor for Master's students (n=2) Ph.D. committee member (n=3)
2021	Kyungpook National University Undergraduate research assistants (n=2) Ph.D. committee member (n=1)  Chungbuk National University Ph.D. committee member (n=1)
2019-2020	New Mexico State University M.S. committee member (n=1)
2017-2019	Undergraduate Research Mentor (n=6): Mentored experimental designs, gas chromatography coupled with mass spectrometry, electroantennodetector, dynamic headspace volatile collection and field techniques in invasive plants in the Southwestern US.
2016-2017	Advisor for entomologists (n=2): Mentored research and development on artificial diets for crickets.
2010-2017	Undergraduate Research Mentor (n=6): Mentored experimental designs and laboratory technique including four undergraduate students from National Science Foundation, Research Experiences for Undergraduates (NSF-REU).
2007-2010	Undergraduate Research Mentor (n=3): Mentored molecular technique to identify red imported fire ants at a quarantine facility.

### **Professional Societies Membership and Service**

---

Current	Reviewer for: BioControl, Biocontrol Science and Technology, Biological Control, Entomologia Experimentalis et Applicata, Environmental Entomology, Entomological Research, Journal of Asia-Pacific Entomology and Insects.
2021	Korean Society of Applied Entomology: Member.
2019	Coach, NMSU Linnaean Team.
2016	XXV International Congress of Entomology Symposium Co-organizer & Moderator, Rise or Demise? A Global Outlook on the Future of Classical Biological Weed Control, Orlando, FL, USA.
2016	XXV International Congress of Entomology Mixer Co-organizer, Korean Young Entomologists, Orlando, FL, USA.
2015	National ESA Symposium Co-organizer & Moderator, Korean Young Entomologists, Minneapolis, MN, USA.
2015	Pacific Branch ESA Symposium Co-organizer & Moderator, Discovering Entomology in the Pacific Branch: Students as Teachers, Coeur d'Alene, ID, USA.
2014	National ESA Symposium Organizer & Moderator, Korean Young Entomologists, Portland, OR, USA.
2013	National ESA symposium Organizer & Moderator, Korean Young Entomologists, Austin, TX, USA.
2011-2012	Secretary, Aldrich Entomology Club, University of Idaho
2010-2012	Active Member of the Linnaean Team, University of Idaho
2010-2011	Vice President, Aldrich Entomology Club, University of Idaho
2009-2010	President, NMSU Entomology Club, New Mexico State University
2008-2009	Vice President, NMSU Entomology Club, New Mexico State University
2007-2010	Active Member of the Linnaean Team, New Mexico State University
2012-current	International Organization of Biological Control: Member
2010-2012	American Association for the Advancement of Science: Member

2006-2007	Entomological Society of Korea: Member
2004-current	Entomological Society of America: Member

### **Evidence of Self-improvement (participated workshops)**

---

2019	Funding opportunities for graduate students and postdoctoral scholars
2019	Conflict and communication for managers
2018	Fundamentals of laboratory safety
2018	Speaking circles: how to teach and speak with ease and impact
2018	Ten ways to manage your time
2018	Publish and flourish: become a prolific scholar
2018	Strategies for developing competitive proposals
2018	Expanding NMSU horizons for private research funding

### **Awards**

---

2018	Early Career Researcher Travel Award. International Organization for Biological Control, XV International Symposium on Biological Control of Weeds, Engelberg, Switzerland.
2014	Student Oral Presentation Second Place, Korean Young Entomologists Symposium, National ESA Meeting, Portland, OR, USA.
2012	Best Student Oral Presentation, Korean Young Entomologists Symposium, National ESA Meeting, Knoxville, TN, USA.
2011	Best Student Oral Presentation, XIII International Symposium on Biological Control of Weeds, Waikoloa, HI, USA.
2011	Student Winner, Insect Photo Salon, Pacific Branch ESA Meeting, Waikoloa, HI, USA.
2011	Student Runner-up, Insect Photo Salon, Pacific Branch ESA Meeting, Waikoloa, HI, USA.
2011	Student Honorable Mention, Insect Photo Salon, Pacific Branch ESA Meeting, Waikoloa, HI, USA.

- 2010 Graduate Dean's Award of Excellence, New Mexico State University, Las Cruces, NM, USA.
- 2010 ESA Linnaean Games Competition First Place, Southwestern Branch ESA Meeting, Cancun, Mexico.
- 2009 First President's Prize in Biological Control, National ESA Meeting, Indianapolis, IN, USA.
- 2009 Master's Poster Presentation Third Place, Southwestern Branch ESA Meeting, Stillwater, OK, USA.
- 2008 Master's Poster Presentation First Place, Southwestern Branch ESA Meeting, Fort Worth, TX, USA.
- 2007 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the first award among all departmental undergraduate students.
- 2006 Academic Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the first award among all departmental undergraduate students of same academic year.
- 2006 Student Winner, The III Bio Microscopic Photograph Exhibition, the Republic of Korea.
- 2006 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the second award among all departmental undergraduate students of the same academic year.
- 2005 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the first award among all departmental undergraduate students.
- 2005 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the first award among all departmental undergraduate students of same academic year.
- 2001 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the first award among all departmental undergraduate students.
- 2001 Full-ride Scholarship, Chungbuk National University, Cheongju, the Republic of Korea; the second award among all departmental undergraduate students of the same academic year.