

Sang Il Kim

Curriculum Vitae – December 2015

Museum of Comparative Zoology
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EDUCATION

Harvard University

Ph.D. in Organismic and Evolutionary Biology
Advisor: Professor Brian D. Farrell

Cambridge, MA
Expected May 2021

A.B. Honors in Organismic and Evolutionary Biology with Highest Honors

June 2015

Thesis: Phylogeny, Systematics and Evolution of the Family Lucanidae Latreille (Insecta: Coleoptera)
Advisor: Professor Brian D. Farrell

Choate Rosemary Hall

Secondary education, cum laude (highest honors)

Wallingford, CT
June 2010

RESEARCH INTERESTS

Phylogeny and evolution of beetles (expertise in Lucanidae and Prioninae); biogeography; cryptic speciation; species delimitation; coevolution; insect-plant/fungus interaction (esp. saproxylophagous beetles); and adaptive radiation.

PROFESSIONAL SOCIETIES

Cambridge Entomological Club (2012 - Present)
Coleopterists Society (2010 - Present)
Connecticut Entomological Society (2007 - 2011)

Entomological Society of America (2013 - Present)
Entomological Society of Korea (2009 - Present)
Willi Henning Society (2013 - Present)

PROFESSIONAL EXPERIENCE

2013 - Present Research Assistant
Museum of Comparative Zoology (MCZ), Harvard University; Advisor: Dr. Brian D. Farrell
2011 - 2012 Visiting Researcher/Intern
National Academy of Agricultural Science (NAAS) (Suwon, Korea); Advisor: Dr. Haechul Park
2009 - 2010 Student Intern
Yale Peabody Museum of Natural History; Advisor: Dr. Raymond J. Pupedis
2009 Visiting Researcher
Natural History Museum (London, UK); Advisor: Dr. Maxwell V.L. Barclay
2008 Visiting Researcher
National Institute of Biological Resources (Incheon, Korea); Advisor: Dr. Joo-Lae Cho

GRANTS AND FELLOWSHIPS

2015 - Present Harvard Graduate Fellowship
2014 James M. O'Neil Memorial Undergraduate Travel and Research Fund Grant: Travel to the Dominican Republic and participation in the Harvard Summer Study Abroad Program, Biodiversity of Hispaniola
2013 MCZ Ernst Mayr Travel Grants: Visit to the Muséum National d'Histoire Naturelle, Paris, for a systematic review of the *Dorcus velutinus* species group (Coleoptera: Lucanidae) through an integrative taxonomic approach
2013 MCZ Grants-in-Aid of Undergraduate Research (Fall): Phylogeny of world stag beetles may reveal a Gondwanan origin of Darwin's beetle: Testing Jenneal's hypothesis
2013 Harvard College Research Program (Fall): Phylogeny of world stag beetles may reveal a Gondwanan origin of Darwin's beetle: Testing Jeannel's hypothesis
2013 MCZ Grants-in-Aid of Undergraduate Research (Summer): Unveiling cryptic diversity in the stag beetle populations of the *Dorcus velutinus* species group (Coleoptera: Lucanidae)
2013 Harvard College Research Program (Summer): Unveiling cryptic diversity in the stag beetle populations of the *Dorcus velutinus* species group (Coleoptera: Lucanidae)
2012 MCZ Grants-in-Aid of Undergraduate Research (Fall): Systematic review of the *Dorcus velutinus* species group (Coleoptera: Lucanidae) through an integrative taxonomic approach

2008 - 2010 Paul Mellon'25 Scholarship for researches in science and mathematics, Choate Rosemary Hall

AWARDS AND HONORS

2010 Youth Incentive Award, The Coleopterists Society
2008 Two Special Awards, Connecticut Science Fair awarded by the Yale Peabody Museum of Natural History and Connecticut College, Department of Biological Sciences
2008 Second Honors, Connecticut Science Fair

PUBLICATIONS AND PRESENTED PAPERS

Publications

1. **Kim, S.I.**, and J.I. Kim. 2010. Review of family Lucanidae (Insecta: Coleoptera) in Korea with the description of one new species. *Entomological Research* 40(1): 55–81.
2. Kim, J.I., and **S.I. Kim**. 2014. *Insect Fauna of Korea: Lucanidae and Passalidae*. Incheon: National Institute of Biological Resources, Ministry of Environment, Republic of Korea (Two volumes, one in Korean and the other in English).
3. **Kim, S.I.**, and B.D. Farrell. 2015. Phylogeny of world stag beetles (Coleoptera: Lucanidae) reveals a Gondwanan origin of Darwin's stag beetle. *Molecular Phylogenetics and Evolution* 86: 35–48.

Presentations

1. **Kim, S.I.**, T. Han, T. Kang, J. Jeong, Y. Lee, N.E. Pierce, P.D. Perkins, and H. Park. 2012. Revision of the *Dorcus velutinus* species group (Coleoptera: Lucanidae) through an integrative taxonomic approach. *Oral presentation at the XXIV International Congress of Entomology, Daegu, Korea*.
2. **Kim, S.I.**, and B.D. Farrell. 2014. First molecular phylogeny of world stag beetles (Coleoptera: Lucanidae) reveals a Gondwanan origin of Darwin's stag beetle: Testing Jeannel's hypothesis. *Ten-Minute Paper Oral Presentation at the 2014 Annual Meeting of the Entomological Society of America, Portland, OR*.
3. **Kim, S.I.**, and B.D. Farrell. 2015. Phylogeny and biogeography of the prionine genus *Callipogon* Audinet-Serville (Coleoptera: Cerambycidae) with special emphasis on the origin and conservation of its Palearctic member, *Callipogon relictus* Semenov. *Ten-Minute Paper Oral Presentation at the 2015 Annual Meeting of the Entomological Society of America, Minneapolis, MN*.

RELEVANT SKILLS

Morphological work: Species description and taxonomy (experiences in Lucanidae, Cerambycidae, and Scarabaeidae), insect family identification, generating morphological data for cladistics analysis, computer-based programs using likelihood, parsimony and Bayesian inferences, morphometrics, and principal components analysis and canonical discriminant analysis on quantitative characters.

Molecular work: DNA extraction (spin column-based and Phenol-Chloroform extractions; high-yield extraction from dried museum specimens through non-destructive sampling), PCR, DNA sequencing, computer-based phylogenetic programs using likelihood, parsimony and Bayesian inferences, biogeographic analysis (e.g., *Lagrange*; BioGeoBEAR package in R), sequence-based species delimitation methods (e.g., splits package in R), and media preparation (FigTree; R; Adobe Illustrator).

PUBLIC OUTREACH AND LEADERSHIP ACTIVITIES

2011 - 2013 Project U (Founder & Young Scientists' Section Leader): Provided networking opportunities to college students through career fairs, organized study abroad information sessions, and led community services.
2011 - 2013 Harvard College Korean International Students Association (President & Social Chair)
2008 - 2010 Choate Entomology Club (Founder & President): Supervised students on conducting various biodiversity surveys and arranged exploratory trips to museums and professional seminars.
2008 - 2010 "Insects of the World" Exhibition (Organizer): Coordinated annual exhibitions for regional communities in Wallingford, CT, with over 400 pinned and live specimens from my private collections.
2009 Green Cup Challenge (Captain): Advocated reduction in energy use during the Green Cup Challenge month.
2008 Seoul Forest Park (Volunteer): Educated high school students, provided informational tours for foreigners, and collected biodiversity data in a regenerated wetland ecosystem.