

Sungsik Kong

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

Brown University, Providence, Rhode Island, USA

*Institute for Computational and Experimental Research in Mathematics
(ICERM)*

2024–Present

*Postdoctoral fellow
in Mathematics*

Mentors: Dr. Elizabeth Allman (University of Alaska Fairbanks) for Fall 2024 Semester
Dr. Scott Edwards (Harvard University) for Spring 2025 Semester

University of Wisconsin-Madison, Madison, Wisconsin, USA

Wisconsin Institute for Discovery:

State-funded interdisciplinary scientific research institution

Mentor: Dr. Claudia Solís-Lemus

2023–2024

Postdoctoral research associate

EDUCATION

The Ohio State University, Columbus, Ohio, USA

Ph.D. in Evolution, Ecology, and Organismal Biology (EEOB)

Presidential fellow

2018–2022

2022

Dissertation: Towards the network of life: Phylogenetic networks as a tool to understand complex evolutionary histories

Advisor: Dr. Laura Kubatko (Professor in Statistics and EEOB)

University of Toronto, Toronto, Ontario, Canada

M.Sc. in Ecology and Evolutionary Biology

Thesis: On the use of Median-Joining networks: A philosophical and empirical evaluation of its suitability in evolutionary biology

Advisor: Dr. Robert Murphy

2013–2015

University of Toronto, Toronto, Ontario, Canada

B.Sc. in Zoology and Ecology and Evolutionary Biology

Undergraduate thesis advisors: Dr. Robert Murphy and Dr. Deborah McLennan

2006–2012

PUBLICATIONS

Total number: 22

h-index: 8 [[Google scholar](#)]

*Correspondence; ‡Co-correspondence; †Equal contribution

Highlights

- [22] **Kong S**, Solís-Lemus CR, and Tiley GP. (Accepted) Phylogenetic networks empower speciation biology. *Proc. Natl. Acad. Sci. U.S.A*
- [21] **Kong S***, Swofford DL, and Kubatko LS. (2024) Inference of phylogenetic networks from sequence data using composite likelihood. *Systematic Biology* syae054 doi:10.1093/sysbio/syae054
- [20] **Kong S***, Sánchez-Pacheco SJ, and Murphy RW. (2023) Median-Joining Networks and Bayesian phylogenies often do not tell the same story. *Bulletin of the Society of Systematic Biologists* 2:1 1–13 doi:10.18061/bssb.v2i-1.9625
- [19] **Kong S** (2022) Digest: Frequent hybridization in *Darevskia* rarely leads to the evolution of asexuality. *Evolution* 76:9 2216–2217 doi:10.1111/evo.14587

- [18] **Kong S[†]**, Pons JC[†], Kubatko LS, and Wicke K. (2022) Classes of phylogenetic networks and their mathematical and biological significance. *Journal of Mathematical Biology* 84:47 doi:10.1007/s00285-022-01746-y
- [17] **Kong S** and Kubatko LS. (2021) Comparative performance of popular methods for hybrid detection using genomic data. *Systematic Biology* 70:5 891–907 doi:10.1093/sysbio/syaa092
- [16] Sánchez-Pacheco SJ[‡], **Kong S[‡]**, Pulido-Santacruz P, Murphy RW, and Kubatko L. (2020) Median-joining network analysis of SARS-CoV-2 genomes is neither phylogenetic nor evolutionary. *Proc. Natl. Acad. Sci. U.S.A* 117:23 12518–12519 doi:10.1073/pnas.2007062117
- [15] **Kong S[†]**, Sánchez-Pacheco S[†], and Murphy RW. (2016) On the use of Median-Joining Networks in evolutionary biology. *Cladistics* 32: 691–699 doi:10.1111/cla.12147

Other peer-reviewed journal articles

- [14] Kubatko L, **Kong S**, Webb E, and Chen Z. (Accepted) The promise of composite likelihood for species-level phylogenomic inference. *Evolutionary Journal of the Linnean Society*
- [13] Peng J, **Kong S**, and Kubatko L. (2024) A likelihood ratio test for hybridization under the multispecies coalescent. *Bulletin of the Society of Systematic Biologists* doi:10.18061/bssb.v3i2.9560
- [12] Fu M, Eimes JA, **Kong S**, Lamichhaney S, Waldman B (2023) Identification of major histocompatibility complex genotypes associated with resistance to an amphibian emerging infectious disease. *Infection, Genetics and Evolution* 105470 doi:10.1016/j.meegid.2023.105470
- [11] Glon H, Häussermann V, Brewin P, Brickle P, **Kong S**, Smith M, and Daly M. (2023) There and back again: The unexpected journeys of *Metridium* de Blainville, 1824 between the old oceans and throughout the modern world. *Biological Bulletin* 244:1 doi:10.1086/723800
- [10] Nguyen HQ, Ho P-T, **Kong S**, Bae Y, Pham TH, and Jang Y. (2022) A time-calibrated mitogenomic phylogeny suggests that Korean *Hyalessa fuscata* is a bridge between Chinese and Japanese *H. maculaticollis*. *Journal of Genetics* 102:9 doi:10.1007/s12041-022-01405-7
- [9] Nguyen HQ, Kim E, Bae Y, Chae S, Ji S, Heo J, **Kong S**, Nguyen TK, Pham TH, and Jang Y. (2022) An effective method for accurate life-stage delimitation of cicadas. *Journal of Asia-Pacific Entomology* 101952 doi:10.1016/j.aspen.2022.101952
- [8] Glon MG, Broe MB, Crandall KA, Daly M, **Kong S**, Thoma RF, and Freudenstein JV. (2022) Anchored hybrid enrichment resolves the *Lacunicambarus* (Decapoda: Cambaridae) phylogeny. *Journal of Crustacean Biology* 42:1 ruab073 doi:10.1093/jcabi/ruab073
- [7] Kim M, Nguyen HQ, Yi Y, Ahn J, Kim YE, Jang S, Kim S, **Kong S**, and Borzée A. (2020) Policy recommendation on whaling, trade and watching of cetaceans in the Republic of Korea. *Biodiversity Journal* 11: 255–258 doi:10.31396/Biodiv.Jour.2020.11.1.255.258
- [6] Weiringa JG, Boot MR, Dantas-Queiroz MV, Duckett D, Fonseca EM, Glon H, Hamilton N, **Kong S**, Lanna FM, Mattingly KZ, Parsons DJ, Smith ML, Stone BW, Thompson C, Zuo L, and Carstens BC. (2020) Does habitat stability structure intraspecific genetic diversity? It's complicated... *Frontiers in Biogeography* e45377 doi:10.21425/F5FBG45377
- [5] Borzée A, Purevdorj Z, Kim YI, **Kong S**, Choe M, Yi Y, Kim K, Kim A, and Jang Y. (2020) Breeding preferences in the Treefrogs *Dryophytes japonicus* (Hylidae) in Mongolia, the northern limit of their range. *Journal of Natural History* 53: 2685-2698 doi:10.1080/00222933.2019.1704458
- [4] Bae Y, **Kong S**, Yi Y, Jang Y, and Borzée A. (2019) Additional new type of threat to *Hynobius* salamander eggs: predation by loaches (*Misgurnus* sp.) in agricultural wetlands. *Animal Biology* 69:4 451–461 doi:10.1163/15707563-20191070
- [3] Groffen J, **Kong S**, Jang Y, and Borzée A. (2019) The invasive American bullfrog (*Lithobates catesbeianus*) in the Republic of Korea: history and recommendation for population control. *Management of Biological Invasions* 10:3 517–535 doi:10.3391/mbi.2019.10.3.08

- [2] Borzée A, **Kong S**, Didinger C, Nguyen HQ, and Jang Y. (2018) A ring-species or a ring of species? Phylogenetic relationship between two treefrog species around the Yellow Sea: *Dryophytes suweonensis* and *D. immaculatus*. *The Herpetological Journal* 28: 160–170
- [1] Kim K, **Kong S**, Kim YI, Borzée A, Bae Y, and Jang Y. (2018) Japanese hard ticks (*Ixodes nipponensis*) parasitizing on the endangered leopard cat (*Prionailurus bengalensis euptilura*) in the Republic of Korea. *Animal Systematics, Evolution and Diversity* 34:1 23–26 doi:10.5635/ASED.2018.34.1.032

Policy recommendation

- [1] Borzée A, Nguyen HQ, Ahn J, Kim M, Kim S, Jang S, **Kong S**, Kim YE, and Yi Y. (2017) Policy recommendation on the negative impact of infrastructure development on the population of endangered Long-Tailed Goral in Oseck-Kkeutchong. *Society for Conservation Biology Korean Chapter*

Submitted (or very close to be submitted)

- [1] Fonseca EM, Camurugi F, Magalhães FM, **Kong S**, Colli GR, Werneck FP, and Carstens BC. (In Preparation) Geographic distance, rivers, and historical climate explain genetic structure and differentiation in a widely distributed lizard in South America
- [2] Kolbow N, **Kong S**, Chafin T, and Solís-Lemus CR. (In Preparation) SNaQ2: Improved scalability for phylogenetic network inference
- [3] Kolbow N, **Kong S**, and Solís-Lemus CR. (In Preparation) A method for massively scalable phylogenetic network inference

GRANTS AND AWARDS

All in US Dollars unless stated. †Canadian Dollar; ‡Converted from South Korean Won
Total amount of funding received up to date ≈US\$123,000

Highlights

- [1] ICERM Postdoctoral Fellowship, Brown University [\$71,600] 2024–2025
- [2] The Presidential Fellowship, The Ohio State University [\$36,500] 2022
- [3] Society of Systematic Biologists (SSB) Ad Hoc Funds [\$3,000] 2021
- [4] Society for the Study of Evolution (SSE) Graduate Research Excellence Grant [\$1,800] 2020
R.C. Lewontin Award competition
- [5] University of Toronto Graduate Fellowship 2013–2015
- [6] E.M. Walker Graduate Award in Biodiversity, University of Toronto [\$2,615†] 2014

Other grants

- [1] Funding for participation in Algebraic Methods in Phylogenetics Workshop (NSF) 2024
- [2] UW-Madison Department of Plant Pathology Travel Award [\$500] 2024
- [3] EvolCompGen Best Poster Award, ISMB, ISCB [\$100] 2022
- [4] EEOB Graduate Development Grant, The Ohio State University [Funded] 2022
- [5] EEOB Graduate Evolution & Ecology Student Organization (GEES) Career Development Grant, The Ohio State University [\$200] 2022
- [6] Council of Graduate Students (CGS) Career Development Grant, The Ohio State University [\$350] 2022
- [7] EEOB Darwin Talk Society Membership Grant, The Ohio State University [\$70] 2021
- [8] EEOB Graduate Development Grant, The Ohio State University [Funded] 2021

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| [9] | Funding for participation in Future of Systematics Workshop,
SSB Standalone Meeting (NSF) [\$500] | 2020 |
| [10] | Funding for participation in Midwest Phylogenetics Workshop (NSF) [Funded] | 2019 |
| [11] | EEOB Graduate Development Grant, The Ohio State University [Funded] | 2019 |
| [12] | University of Toronto Undergraduate Bursaries [†≈\$3,000] | 2010–2012 |

TALKS AND
PRESENTATIONS

Invited talks (*Virtual presentation)

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|------|---|---------------------------------|
| [1] | New Jersey Institute of Technology (NJIT), Newark, NJ, USA
<i>Mathematical Biology Seminar</i> | Planned in 2025 |
| [2] | Rutgers University-Camden, Camden, NJ, USA
<i>Biology Seminar Series</i> | 2025 |
| [3] | Universidad del Rosario, Bogotá, Colombia [press]
<i>Seminario de investigación</i> | 2024 |
| [4] | Universidad Nacional de Colombia, Sede La Paz, Cesar, Colombia
Guest speaker in undergraduate course <i>L000322: Sistemática aplicada (Applied Systematics)</i> | 2024 |
| [5] | Creighton University, Omaha, NE, USA
<i>Department of Mathematics Colloquium Series</i> | 2024 |
| [6] | ICERM, Brown University, Providence, RI, USA
<i>From Phylogenetics to Phylogenomics:
Mathematical and Statistical Challenges in the era of Big Data Workshop</i> | 2024 |
| [7] | ICERM, Brown University, Providence, RI, USA
<i>Daily Discovery</i> | 2024 |
| [8] | Joint Congress on Evolutionary Biology, Montréal, QC, Canada
<i>Networks in Population Genetics and Phylogenetics:
Theory, Methods, and Applications Symposium</i> | 2024 |
| [9] | University of Hawai'i at Mānoa, Honolulu, HI, USA
<i>Algebraic Methods in Phylogenetics Workshop, Just-in-time talk</i> | 2024 |
| [10] | University of Science and Technology of Hanoi,
Vietnam Academy of Science and Technology, Hanoi, Vietnam [press] | 2024 |
| [11] | Sungshin Women's University, Seoul, South Korea | 2024 |
| [12] | Ewha Womans University, Seoul, South Korea | 2024 |
| [13] | The International Society for Computational Biology (ISCB),
Society for Molecular Biology and Evolution (SMBE)* [video]
<i>EvolCompGen webinar series</i> | 2023 |
| [14] | Society for Industrial and Applied Mathematics,
New York-New Jersey-Pennsylvania Section (SIAM-NNP),
NJIT, Newark, NJ, USA
<i>Mathematics of Evolution Minisymposium</i> | 2023 |
| [15] | University of Wisconsin-Madison, WI, USA [video]
<i>UW-Madison Fall 2023 Evolution Seminar Series</i> | 2023 |
| [16] | University of Wisconsin-Madison, WI, USA
<i>UW-Madison Postdoctoral Research Symposium Blitz Talks Competition</i> | 2023 |
| [17] | Taming the BEAST, Squamish, BC, Canada
<i>Squamish BEAST Tamers</i> | 2023 |
| [18] | Botany Meeting, Boise, ID, USA
<i>Seeing the Network for the Trees Symposium</i> | 2023 |

[19]	Algorithms and Complexity in Phylogenetics* [video]	2022
[20]	Indiana University, Bloomington, IN, USA	2022
[21]	University of California San Diego, CA, USA*	2022
[22]	Evolution Meeting, Cleveland, OH, USA <i>SSB Ernst Mayr Award Competition</i>	2022
[23]	Louisiana State University, Baton Rouge, LA, USA <i>Department of Biological Sciences Seminar</i>	2022
[24]	The Korean Association of Biological Sciences, Seoul, South Korea* <i>The Ecological Society of Korea Section</i>	2021
[25]	Workshop in Mathematical and Computational Biology* [video] <i>Bioinformatics Section</i>	2021
[26]	Misericordia University, Dallas, PA, USA* <i>Biology Seminar Series</i>	2021
[27]	The Stone Laboratory, Gibraltar Island, OH, USA <i>EEOB 1930 Introduction to Biological Studies–Aquatic Biology</i>	2019
[28]	Ewha Womans University, Seoul, South Korea <i>Eco-science/Eco-creative Graduate Seminar</i>	2016
[29]	Ewha Womans University, Seoul, South Korea <i>Laboratory of Behavior and Ecology Weekly Seminar</i>	2013

Additional talks

[1]	ICERM, Brown University, Providence, RI, USA <i>ICERM Research Seminar</i>	Planned in 2025
[2]	Harvard University, Cambridge, MA, USA <i>Edwards Lab Weekly Lab Meeting</i>	Planned in 2025
[3]	ICERM, Brown University, Providence, RI, USA <i>Grad and Postdoc talk</i>	2024
[4]	University of Wisconsin-Madison, WI, USA <i>Friday@4</i>	2024
[5]	University of Wisconsin-Madison, WI, USA <i>Wisconsin Institute for Discovery Symposium</i>	2023
[6]	Evolution Meeting*	2021
[7]	The Ohio State University, Columbus, OH, USA* <i>EEOB Annual Darwin Series</i>	2021
[8]	The Ohio State University, Columbus, OH, USA <i>Evolution & Ecology Club</i>	2019, 2020
[9]	SSB Standalone Meeting, Gainesville, FL, USA	2020
[10]	Ewha Womans University, Seoul, South Korea <i>Animal Communication Symposium</i>	2017

Poster presentations

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|-----|--|-----------------|
| [1] | Brown University, Providence, RI, USA
<i>Brown Postdoctoral Research Symposium</i> | Planned in 2025 |
| [2] | Intelligent Systems for Molecular Biology (ISMB), ISCB, Madison, WI, USA
<i>Best Poster Award Winner</i> | 2022 |
| [3] | Evolution Meeting, Providence, RI, USA | 2019 |
| [4] | The Korean Association of Biological Sciences, Yong-In, South Korea | 2017 |
| [5] | Korean-American Scientists and Engineers Association (KSEA),
Young Generation Technical and Leadership Conference (YGTLC), Houston, TX, USA | 2014 |
| [6] | University of Toronto, Toronto, ON, Canada
<i>Department of Ecology and Evolutionary Biology undergraduate research Fair</i> | 2012 |

ACADEMIC EXPERIENCE

Fieldwork experience

- | | | |
|-----|---|------------|
| [1] | Indonesia (volunteer) | 2016 |
| | • Javan gibbons behaviors research at Mount Halimun Salak National Park | |
| [2] | Laos (volunteer) | 2016, 2023 |
| | • Butterfly taxonomy work at Kuang Si Butterfly Park | |
| [3] | Mongolia and China (resulted in publication [5]) | 2016–2017 |
| | • Molecular and behavioral data collection of frogs and toads | |
| [4] | South Korea (resulted in publications [9] and [10]) | 2016–2017 |
| | • Molecular and behavioral data collection of cicadas and frogs | |
| [5] | Greater Toronto Area (GTA; work-study student) | 2010–2013 |
| | • Data collection for urban biodiversity research | |

Academic visit

- | | | |
|-----|--|---------------------------------------|
| [1] | Universidad Nacional de Colombia Sede La Paz and
Universidad del Rosario, Bogota, Colombia
Collaborators: Drs. Santiago Sánchez-Pacheco and Paola Pulido-Santacruz | 2024
<i>Visiting scholar</i> |
| [2] | University of Wisconsin–Madison, WI, USA
<i>Wisconsin Institute for Discovery</i>
Mentor: Dr. Claudia Solís-Lemus | 2022
<i>Visiting Ph.D. student</i> |
| [3] | Louisiana State University, Baton Rouge, LA, USA
<i>Department of Biological Sciences</i>
Mentor: Dr. Jeremy Brown | 2022
<i>Visiting Ph.D. student</i> |

Research experience

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|-----|--|--|
| [1] | Ewha Womans University, Seoul, South Korea
<i>Division of Eco-science</i>
Mentors: Drs. Jae Chun Choe and Yikweon Jang | 2013, 2016–2017
<i>Researcher</i> |
| [2] | University of Toronto, ON, Canada
<i>Faculty of Forestry</i>
Mentors: Dr. Sandy Smith and Eric Davies | 2011–2013
<i>Work-study student &
Biodiversity technician</i> |

- [3] Royal Ontario Museum, Toronto, ON, Canada 2012
Centre for Biodiversity and Conservation Biology Student researcher
Mentor: Dr. Robert Murphy
- [4] University of Toronto, ON, Canada 2011–2012
Department of Ecology and Evolutionary Biology Student researcher
Mentor: Dr. Deborah McLennan
- [5] University of Toronto, ON, Canada 2010
Cities Centre, Department of Geography Student data collector
Mentor: Dr. Kristian Larsen

TEACHING AND
MENTORING
EXPERIENCE

The Ohio State University

Teaching assistant

- [1] *EEOB 3310* Evolution (Spring, Fall) 2021
(Spring, Summer, Fall) 2020
(Spring, Fall) 2019
- [2] *EEOB 2520* Human Physiology (Summer) 2021
- [3] *EEOB 1930* Introduction to Biological Studies–Aquatic Biology (Summer) 2019
- [4] *BIOL 1113* Energy Transformation and Development (Fall) 2018

University of Toronto

Teaching assistant

- [1] *BIO 120* Adaptation and Biodiversity (Summer) 2015
(Summer) 2014
(Fall) 2013
- [2] *BIO 220* From Genomics to Ecosystems in a Changing World (Spring) 2015
- [3] *EEB 362* Macroevolution (Fall) 2014
- [4] *EEB 386* Avian Biology (Spring) 2014

(Co-)supervision of undergraduate and graduate students

- [1] Glen Carlo Aldover (M.Sc. student from the Philippines) 2024–Present
Mentoring through SSB Mentoring Program
- [2] Alanna Kong (University of Toronto) 2021–2022
Mentored through University of Toronto Woodsworth Mentorship Program
- [3] Devansh Pandey (Indian Institute of Technology Kharagpur) 2021–2022
Mentored through Científico Latino
Currently a graduate student at University of Texas at Austin
- [4] McKenna Molnar (The Ohio State University) 2020–2021
Mentored through OSU EEOB Graduate Mentoring Program
- [5] Shelby Jansens and Kimberly Wiles 2020
Co-supervised with Dr. Laura Kubatko through
Mathematical Biosciences Institute Research Experiences for Undergraduates program
Project title: Detecting shifts in the evolutionary process in SARS-CoV-2 genomes
- [6] Tulio Soares and Ellen Southam 2014–2015
Co-supervised with Dr. Pedro Bernardo at
University of Toronto and Royal Ontario Museum
- [7] Shreeram Senthivasan 2014
Co-supervised with Drs. Pedro Bernardo, Santiago Sánchez-Pacheco, and Robert Murphy at
University of Toronto and Royal Ontario Museum

International workshops

Instructor

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|---|------|
| [1] Methodological Advances in Reticulate Evolution, Botany Meeting, Boise, ID, USA | 2023 |
| [2] Squamish BEAST Tamers, Taming the BEAST, Squamish, BC, Canada | 2023 |

Teaching assistant (†Lead teaching assistant)

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|---|------|
| [1] Workshop on Molecular Evolution, Woods Hole, MA, USA†
Instructed <i>Introduction to Computing Laboratory</i> | 2024 |
| [2] Workshop on Molecular Evolution, Woods Hole, MA, USA | 2023 |

Miscellaneous

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|---|------|
| [1] Daruma Eco-Farm, Bang Phra, Si Racha District, Chon Buri, Thailand | 2016 |
| [2] Cheong-Shim International School English Camp, Ga-Pyeong, South Korea | 2009 |

CONFERENCE AND WORKSHOP PARTICIPATION

Participation with a role (*Virtual event)

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|---|------|
| [1] Theory, Methods, and Applications of Quantitative Phylogenomics
ICERM, Brown University, RI, USA
<i>Speaker; and chaired three sessions</i> | 2024 |
| [2] Joint Congress on Evolutionary Biology, Montréal, QC, Canada
<i>Participated as EvoAllies for safe and inclusive meeting</i> | 2024 |
| [3] Evolution Meeting, Albuquerque, NM, USA
<i>SSB Mayr Award Abstract Reviewer &SSE Hamilton Award Judge</i> | 2023 |
| [4] ISMB, ISCB, Madison, WI, USA
<i>Technical Moderator</i> | 2022 |
| [5] Evolution Meeting, Cleveland, OH, USA
<i>SSB Symposium Co-organizer (with Dr. Md Rejuan Haque)</i>
<i>Symposium title: Towards the network of life: Phylogenetic networks as a tool to understand complex evolutionary histories.</i> | 2022 |
| [6] Evolution Meeting*
<i>Chair/Moderator in multiple Faux-Live Sessions</i> | 2021 |

Participant

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| [1] Algorithmic Advances and Implementation Challenges:
Developing Practical Tools for Phylogenetic Inference
ICERM, Brown University, RI, USA | 2024 |
| [2] Current Methods and Open Problems in Mathematical and Statistical Phylogenetics
ICERM, Brown University, RI, USA | 2024 |
| [3] Algebraic Methods in Phylogenetics Workshop,
University of Hawai'i at Mānoa, Honolulu, HI, USA [press] | 2024 |
| [4] Wisconsin Institute for Discovery Symposium,
University of Wisconsin-Madison, WI, USA | 2022, 2023 |
| [5] Midwest Machine Learning Symposium, University of Illinois Chicago, IL, USA | 2023 |
| [6] Workshop in Mathematical and Computational Biology* | 2022 |
| [7] Annual Conference of the Korean Association of Biological Sciences, South Korea* | 2021 |
| [8] iEvoBio (Informatics for Phylogenetics, Evolution and Biodiversity), Evolution Meeting* | 2021 |

	[9] Workshop in Mathematical and Computational Biology*	2021
	[10] SMRT Leiden 2021 – Young Investigator Virtual Conference*	2021
	[11] Virtual Asilomar 2021, American Society of Naturalists*	2021
	[12] Future of Systematics Workshop at SSB Standalone Meeting, University of Florida, Gainesville, FL, USA	2020
	[13] SSB Standalone Meeting, Gainesville, FL, USA	2020
	[14] Evolution Meeting, Providence, RI, USA	2019
	[15] Midwest Phylogenetics Workshop, Itasca Biological Station, University of Minnesota, MN, USA	2019
	[16] Annual Conference of the Korean Association of Biological Sciences, Yong-In, South Korea	2017
	[17] Society for Conservation Biology (SCB) Asia Section, Workshop on Conservation policy, Bangkok, Thailand	2017
	[18] World Congress of Herpetology, Hangzhou and Tonglu, China	2016
	[19] Phylogenomics Symposium and Software School at SSB Standalone Meeting, University of Michigan, Ann Arbor, MI, USA	2015
DIVERSITY AND INCLUSION ACTIVITIES	[1] Postdoc Appreciation Week, ICERM, RI, USA [press]	2024
	[2] International Mixer, Evolution Meeting, Cleveland, OH, USA	2022
	[3] International Mixer, Evolution Meeting* <i>Moderator</i>	2021
	[4] Decolonizing Evolution Workshop, Evolution Meeting* <i>Moderator</i>	2021
	[5] Transformative Justice within Academia: A radical institutional reflection, The Centre for Criminology and Sociological Studies Graduate Student Conference, University of Toronto*	2021
	[6] Strategies for Responding to Harassment and Bullying: Improving Workplace Climate, Evolution Community Resources for Early Career Researchers 2020 (ECR ²)* <i>Moderator</i>	2020
	[7] Fireside ECR Chat, ECR ² * <i>Moderator</i>	2020
OUTREACH AND SERVICE	[1] The Society's Graduate Student Research Awards <i>Reviewer</i>	2024
	[2] Junior science café, Morgridge Institute for Research, WI, USA <i>Scientist</i>	2023
	[3] EEOB 8894: EEOB Graduate seminar, The Ohio State University <i>Invited Panelist</i>	2020
	[4] Museum of Biological Diversity's open house, The Ohio State University <i>Volunteer</i>	2019
	[5] Department of EEOB, The Ohio State University <i>Graduate studies Committee</i>	2020–2021
	[6] Department of EEOB, The Ohio State University <i>Admissions Committee</i>	2019–2020

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|-----|--|------------|
| [7] | SCB, South Korean Chapter
<i>Communication Officer</i> | 2016–2017 |
| [8] | Kuang Si Butterfly Park, Ban Thapene, Luang Prabang District, Laos
<i>Volunteer Biologist</i> | 2016, 2022 |

PEER-REVIEW
ACTIVITIES

Review Editor on the Editorial Board of Evolutionary Systems Biology (specialty section of Frontiers in Systems Biology). **Reviewer** at Systematic Biology; Molecular Biology and Evolution; Genome Biology and Evolution; Scientific Reports; Molecular Phylogenetics and Evolution; Philosophical Transactions B; Infection, Genetics and Evolution; PLOS Computational Biology; F1000Research; Journal of Mathematical Biology; Bulletin of Mathematical Biology; Ecology and Evolution; Zoological Systematics; Functional & Integrative Genomics

ACTIVE
PROFESSIONAL
MEMBERSHIPS

Society of Systematic Biologists; Society for Study of Evolution; International Society for Computational Biology

SKILLS

Programming: UNIX, R, Python, Julia, HTML, JavaScript
Typesetting: \LaTeX , R Markdown, Jupyter Notebook
Languages: English (Fluent), Korean (Native), Japanese (Intermediate)