

Sungsik Kong

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

RIKEN, Wako, Saitama, Japan **2025–Present**
Center for Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS) *Research Scientist*
Division of Fundamental Mathematical Science

Brown University, Providence, Rhode Island, USA **2024–2025**
Institute for Computational and Experimental Research in Mathematics *Postdoctoral fellow*
(ICERM) *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 **2023–2024**
Wisconsin Institute for Discovery: *Postdoctoral research associate*
State-funded interdisciplinary scientific research institution
Mentor: Dr. Claudia Solís-Lemus

EDUCATION

The Ohio State University, Columbus, Ohio, USA **2018–2022**
Ph.D. in Evolution, Ecology, and Organismal Biology (EEOB)
Presidential fellow 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 **2013–2015**
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

University of Toronto, Toronto, Ontario, Canada **2006–2012**
B.Sc. in Ecology and Evolutionary Biology and Zoology
Undergraduate thesis advisors: Dr. Robert Murphy and Dr. Deborah McLennan

PUBLICATIONS

Total number: 22
h-index: 9 [[Google scholar](#)]
*Correspondence; ‡Co-correspondence; †Equal contribution

Highlights

- [22] **Kong S**, Solís-Lemus CR, and Tiley GP. (2025) Phylogenetic networks empower speciation biology. *Proc. Natl. Acad. Sci. U.S.A* 122:31 e2410934122 doi:10.1073/pnas.2410934122
- [21] **Kong S***, Swofford DL, and Kubatko LS. (2024) Inference of phylogenetic networks from sequence data using composite likelihood. *Systematic Biology* 74:1 53–69 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. (2025) The promise of composite likelihood for species-level phylogenomic inference. *Evolutionary Journal of the Linnean Society* kzaf008 doi:10.1093/evolinnean/kzaf008
- [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

Other publications

- [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] Morley L[‡], Lehmberg E, and **Kong S**[‡]. (In Revision) Evaluating phylogenetic comparative methods under reticulate evolutionary scenarios
- [2] Kolbow N[†], **Kong S**[†], Chafin T, Justison J, Ané C, and Solís-Lemus CR. (In Revision) **SNaQ.jl**: Improved scalability for phylogenetic network inference Preprint available at *BioRxiv* 10.1101/2025.11.17.688917
- [3] Nguyen HQ[†], **Kong S**[†], Bae Y, Heo J, Kang J, and Jang Y. (In Review) Phylogenetic analysis of Korean cicada (Insecta: Hemiptera) species using mitochondrial and nuclear markers
- [4] **Kong S**^{*}, Englander A, Garbett J, Nometa I, and Allman ES (In Preparation) **SymbolicQuartetCF.jl**: A Julia package for symbolic computation of concordance factors
- [5] Fonseca EM, Camurugi F, Magalhães FM, **Kong S**, Colli GR, Werneck FP, and Carstens BC. (In Revision) Geographic distance, rivers, and historical climate explain genetic structure and differentiation in a widely distributed lizard in South America
- [6] Kolbow N, **Kong S**, and Solís-Lemus CR. (In Review) A method for massively scalable phylogenetic network inference. Preprint available at *BioRxiv* 10.1101/2025.05.05.652278

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 and awards

[1]	Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (SORTEE) Commendation Award: As a part of <i>JuliaPhylo: a software ecosystem for phylogenetics in Julia</i>	2025
[2]	Funding for participation in Algebraic Methods in Phylogenetics Workshop (NSF)	2024
[3]	UW-Madison Department of Plant Pathology Travel Award [\$500]	2024
[4]	EvolCompGen Best Poster Award, ISMB, ISCB [\$100]	2022
[5]	EEOB Graduate Development Grant, The Ohio State University [Funded]	2022
[6]	EEOB Graduate Evolution & Ecology Student Organization (GEES) Career Development Grant, The Ohio State University [\$200]	2022
[7]	Council of Graduate Students (CGS) Career Development Grant, The Ohio State University [\$350]	2022
[8]	EEOB Darwin Talk Society Membership Grant, The Ohio State University [\$70]	2021
[9]	EEOB Graduate Development Grant, The Ohio State University	2021
[10]	Funding for participation in Future of Systematics Workshop, SSB Standalone Meeting (NSF) [\$500]	2020
[11]	Funding for participation in Midwest Phylogenetics Workshop (NSF)	2019
[12]	EEOB Graduate Development Grant, The Ohio State University	2019
[13]	University of Toronto Undergraduate Bursaries [$\dagger \approx \$3,000$]	2010–2012

TALKS AND PRESENTATIONS

Invited talks (*Virtual presentation)

[1]	Cleveland, USA	<i>Scheduled in 2026</i>
[2]	Institute for Basic Science (IBS), Daejeon, South Korea [press] <i>RIKEN-IBS Joint Workshop on Mathematical Approaches to Nature</i>	2025
[3]	RIKEN, Wako, Saitama, Japan <i>iTHEMS Biology Seminar</i>	2025
[4]	University of Hawai'i at Mānoa, Honolulu, HI, USA <i>Mathematics Colloquium</i>	2025
[5]	New Jersey Institute of Technology (NJIT), Newark, NJ, USA <i>Mathematical Biology Seminar</i>	2025
[6]	Rutgers University-Camden, Camden, NJ, USA <i>Biology Seminar Series</i>	2025
[7]	Universidad del Rosario, Bogotá, Colombia [press] <i>Seminario de investigación</i>	2024
[8]	Universidad Nacional de Colombia, Sede La Paz, Cesar, Colombia Guest speaker in undergraduate course <i>L000322: Sistemática aplicada (Applied Systematics)</i>	2024
[9]	Creighton University, Omaha, NE, USA <i>Department of Mathematics Colloquium Series</i>	2024
[10]	ICERM, Brown University, Providence, RI, USA <i>From Phylogenetics to Phylogenomics: Mathematical and Statistical Challenges in the era of Big Data Workshop</i>	2024
[11]	ICERM, Brown University, Providence, RI, USA <i>Daily Discovery</i>	2024

- [12] Joint Congress on Evolutionary Biology, Montréal, QC, Canada 2024
Networks in Population Genetics and Phylogenetics: Theory, Methods, and Applications Symposium
- [13] University of Hawai'i at Mānoa, Honolulu, HI, USA 2024
Algebraic Methods in Phylogenetics Workshop, Just-in-time talk
- [14] University of Science and Technology of Hanoi, 2024
Vietnam Academy of Science and Technology, Hanoi, Vietnam [[press](#)]
- [15] Sungshin Women's University, Seoul, South Korea 2024
- [16] Ewha Womans University, Seoul, South Korea 2024
- [17] The International Society for Computational Biology (ISCB), 2023
Society for Molecular Biology and Evolution (SMBE)* [[video](#)]
EvolCompGen webinar series
- [18] Society for Industrial and Applied Mathematics, 2023
New York-New Jersey-Pennsylvania Section (SIAM-NNP),
NJIT, Newark, NJ, USA
Mathematics of Evolution Minisymposium
- [19] University of Wisconsin-Madison, WI, USA [[video](#)] 2023
UW-Madison Fall 2023 Evolution Seminar Series
- [20] University of Wisconsin-Madison, WI, USA 2023
UW-Madison Postdoctoral Research Symposium Blitz Talks Competition
- [21] Taming the BEAST, Squamish, BC, Canada 2023
Squamish BEAST Tamers
- [22] Botany Meeting, Boise, ID, USA 2023
Seeing the Network for the Trees Symposium
- [23] Algorithms and Complexity in Phylogenetics* [[video](#)] 2022
- [24] Indiana University, Bloomington, IN, USA 2022
- [25] University of California San Diego, CA, USA* 2022
- [26] Evolution Meeting, Cleveland, OH, USA 2022
SSB Ernst Mayr Award Competition
- [27] Louisiana State University, Baton Rouge, LA, USA 2022
Department of Biological Sciences Seminar
- [28] The Korean Association of Biological Sciences, Seoul, South Korea* 2021
The Ecological Society of Korea Section
- [29] Workshop in Mathematical and Computational Biology* [[video](#)] 2021
Bioinformatics Section
- [30] Misericordia University, Dallas, PA, USA* 2021
Biology Seminar Series
- [31] The Stone Laboratory, Gibraltar Island, OH, USA 2019
EEOB 1930 Introduction to Biological Studies–Aquatic Biology
- [32] Ewha Womans University, Seoul, South Korea 2016
Eco-science/Eco-creative Graduate Seminar
- [33] Ewha Womans University, Seoul, South Korea 2013
Laboratory of Behavior and Ecology Weekly Seminar

Additional talks

[1]	Cleveland, USA	<i>Scheduled in 2026</i>
[2]	Kyoto, Japan	<i>Scheduled in 2026</i>
[3]	ICERM, Brown University, Providence, RI, USA <i>Research Seminar</i>	2025
[4]	Harvard University, Cambridge, MA, USA <i>Edwards Lab Weekly Lab Meeting</i>	2025
[5]	ICERM, Brown University, Providence, RI, USA <i>Grad and Postdoc talk</i>	2024
[6]	University of Wisconsin-Madison, WI, USA <i>Friday@4</i>	2024
[7]	University of Wisconsin-Madison, WI, USA <i>Wisconsin Institute for Discovery Symposium</i>	2023
[8]	Evolution Meeting*	2021
[9]	The Ohio State University, Columbus, OH, USA* <i>EEOB Annual Darwin Series</i>	2021
[10]	The Ohio State University, Columbus, OH, USA <i>Evolution & Ecology Club</i>	2019, 2020
[11]	SSB Standalone Meeting, Gainesville, FL, USA	2020
[12]	Ewha Womans University, Seoul, South Korea <i>Animal Communication Symposium</i>	2017

Poster presentations

[1]	10 th RIKEN Life Science Retreat, Numazu, Shizuoka, Japan	2026
[2]	Brown University Postdoctoral Research Symposium, Providence, RI, USA	2025
[3]	Intelligent Systems for Molecular Biology (ISMB), ISCB, Madison, WI, USA <i>Best Poster Award Winner</i>	2022
[4]	Evolution Meeting, Providence, RI, USA	2019
[5]	The Korean Association of Biological Sciences, Yong-In, South Korea	2017
[6]	Korean-American Scientists and Engineers Association (KSEA), Young Generation Technical and Leadership Conference (YGTLC), Houston, TX, USA	2014
[7]	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' behavioral 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 2024
 Universidad del Rosario, Bogota, Colombia *Visiting scholar*
 Collaborators: Drs. Santiago Sánchez-Pacheco and Paola Pulido-Santacruz
- [2] University of Wisconsin–Madison, WI, USA 2022
Wisconsin Institute for Discovery *Visiting Ph.D. student*
 Mentor: Dr. Claudia Solís-Lemus
- [3] Louisiana State University, Baton Rouge, LA, USA 2022
Department of Biological Sciences *Visiting Ph.D. student*
 Mentor: Dr. Jeremy Brown

Research experience

- [1] Ewha Womans University, Seoul, South Korea 2013, 2016–2017
Division of Eco-science *Researcher*
 Mentors: Drs. Jae Chun Choe and Yikweon Jang
- [2] University of Toronto, ON, Canada 2011–2013
Faculty of Forestry *Work-study student &*
 Mentors: Dr. Sandy Smith and Eric Davies *Biodiversity technician*
- [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 (University of Santo Tomas, The Philippines) 2024–2025
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

- [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)

- [1] Workshop on Molecular Evolution, Woods Hole, MA, USA† 2024, 2025
Instructed Introduction to Computing Laboratory
- [2] Workshop on Molecular Evolution, Woods Hole, MA, USA 2023

Miscellaneous

- [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)

- | | | |
|-----|---|------|
| [1] | RIKEN-IBS Joint Workshop, IBS, Daejeon, South Korea
<i>Speaker and chair</i> | 2025 |
| [2] | Theory, Methods, and Applications of Quantitative Phylogenomics
ICERM, Brown University, RI, USA
<i>Speaker; and chaired three sessions</i> | 2024 |
| [3] | Joint Congress on Evolutionary Biology, Montréal, QC, Canada
<i>Participated as EvoAllies for safe and inclusive meeting</i> | 2024 |
| [4] | Evolution Meeting, Albuquerque, NM, USA
<i>SSB Mayr Award Abstract Reviewer &
SSE Hamilton Award Judge</i> | 2023 |
| [5] | ISMB, ISCB, Madison, WI, USA
<i>Technical Moderator</i> | 2022 |
| [6] | Evolution Meeting, Cleveland, OH, USA
<i>SSB Symposium Co-organizer (with Dr. Md Rejuan Haque)
Symposium title: Towards the network of life: Phylogenetic networks as a tool to understand
complex evolutionary histories.</i> | 2022 |
| [7] | Evolution Meeting*
<i>Chair/Moderator in multiple Faux-Live Sessions</i> | 2021 |

Participant

- | | | |
|------|--|--------------------------|
| [1] | International Workshop on Probabilistic, Combinatorial, and
Algorithmic Phylogenetics, National Chengchi University, Taipei, Taiwan | <i>Scheduled in 2026</i> |
| [2] | The Final Southeast Center for Mathematics and Biology Symposium
Georgia Institute of Technology, Atlanta, GA, USA | 2025 |
| [3] | Algorithmic Advances and Implementation Challenges:
Developing Practical Tools for Phylogenetic Inference
ICERM, Brown University, RI, USA | 2024 |
| [4] | Current Methods and Open Problems in Mathematical and Statistical Phylogenetics
ICERM, Brown University, RI, USA | 2024 |
| [5] | Algebraic Methods in Phylogenetics Workshop,
University of Hawai'i at Mānoa, Honolulu, HI, USA [press] | 2024 |
| [6] | Wisconsin Institute for Discovery Symposium,
University of Wisconsin-Madison, WI, USA | 2022, 2023 |
| [7] | Midwest Machine Learning Symposium, University of Illinois Chicago, IL, USA | 2023 |
| [8] | Workshop in Mathematical and Computational Biology* | 2022 |
| [9] | Annual Conference of the Korean Association of Biological Sciences, South Korea* | 2021 |
| [10] | iEvoBio (Informatics for Phylogenetics, Evolution and Biodiversity), Evolution Meeting* | 2021 |
| [11] | Workshop in Mathematical and Computational Biology* | 2021 |
| [12] | SMRT Leiden 2021 – Young Investigator Virtual Conference* | 2021 |
| [13] | Virtual Asilomar 2021, American Society of Naturalists* | 2021 |
| [14] | Future of Systematics Workshop at SSB Standalone Meeting,
University of Florida, Gainesville, FL, USA | 2020 |
| [15] | SSB Standalone Meeting, Gainesville, FL, USA | 2020 |
| [16] | Evolution Meeting, Providence, RI, USA | 2019 |

	[17] Midwest Phylogenetics Workshop, Itasca Biological Station, University of Minnesota, MN, USA	2019
	[18] Annual Conference of the Korean Association of Biological Sciences, Yong-In, South Korea	2017
	[19] Society for Conservation Biology (SCB) Asia Section, Workshop on Conservation policy, Bangkok, Thailand	2017
	[20] World Congress of Herpetology, Hangzhou and Tonglu, China	2016
	[21] 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, Brown University, Providence, RI, USA [press]	2024
	[2] Joint Congress on Evolutionary Biology, Montréal, QC, Canada <i>Participated as EvoAllies for safe and inclusive meeting</i>	2024
	[3] International Mixer, Evolution Meeting, Cleveland, OH, USA	2022
	[4] International Mixer, Evolution Meeting* <i>Moderator</i>	2021
	[5] Decolonizing Evolution Workshop, Evolution Meeting* <i>Moderator</i>	2021
	[6] Transformative Justice within Academia: A radical institutional reflection, The Centre for Criminology and Sociolegal Studies Graduate Student Conference, University of Toronto*	2021
	[7] Strategies for Responding to Harassment and Bullying: Improving Workplace Climate, Evolution Community Resources for Early Career Researchers 2020 (ECR ²)* <i>Moderator</i>	2020
	[8] Fireside ECR Chat, ECR ² * <i>Moderator</i>	2020
OUTREACH AND SERVICE	[1] Visit of students enrolled in ASCENT program at Chiba University to RIKEN	2026
	[2] U.S. National Science Foundation (NSF) Mathematical Sciences Institutes <i>Contribution to Research Highlights</i> [highlight]	2025
	[3] SSB Graduate Student Research Awards <i>Reviewer</i>	2024, 2025
	[4] Junior science café, Morgridge Institute for Research, WI, USA <i>Scientist</i>	2023
	[5] EEOB 8894: EEOB Graduate seminar, The Ohio State University <i>Invited Panelist</i>	2020
	[6] Museum of Biological Diversity's open house, The Ohio State University <i>Volunteer</i>	2019
	[7] Department of EEOB, The Ohio State University <i>Graduate studies Committee</i>	2020–2021
	[8] Department of EEOB, The Ohio State University <i>Admissions Committee</i>	2019–2020
	[9] SCB, South Korean Chapter <i>Communication Officer</i>	2016–2017

[10] Kuang Si Butterfly Park, Ban Thapene, Luang Prabang District, Laos 2016, 2022
Volunteer Biologist

PEER-REVIEW
 ACTIVITIES

Associate Editor at Systematic Biology; **Community Reviewer** 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; Heredity; PLOS Computational Biology; Journal of Mathematical Biology; Bulletin of Mathematical Biology; Applications in Plant Sciences; Evolutionary Journal of the Linnean Society; Frontiers in Bioinformatics; Infection, Genetics and Evolution; Ecology and Evolution; Zoological Systematics; F1000Research; 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: L^AT_EX, R Markdown, Jupyter Notebook
 Languages: English (Fluent), Korean (Native), Japanese (Intermediate)

REFERENCES

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