

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 (ICERM) 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 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/jcbiol/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] **Kong S***, Englander A, Garbett J, Nometa I, and Allman ES (In Preparation) *SymbolicQuartetCF.jl*: A Julia package for symbolic computation of concordance factors
- [2] Morley L[†], Lehmberg E, and **Kong S[‡]**. (In Revision) Evaluating phylogenetic comparative methods under reticulate evolutionary scenarios
- [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] 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
- [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

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|---|-----------|
| [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]
<i>R.C. Lewontin Award competition</i> | 2020 |
| [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

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| [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 [†≈\$3,000] | 2010–2012 |

TALKS AND PRESENTATIONS

Invited talks (*Virtual presentation)

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|--|--------------------------|
| [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 <i>Networks in Population Genetics and Phylogenetics: Theory, Methods, and Applications Symposium</i>	2024
[13]	University of Hawai'i at Mānoa, Honolulu, HI, USA <i>Algebraic Methods in Phylogenetics Workshop, Just-in-time talk</i>	2024
[14]	University of Science and Technology of Hanoi, Vietnam Academy of Science and Technology, Hanoi, Vietnam [press]	2024
[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), Society for Molecular Biology and Evolution (SMBE)* [video] <i>EvolCompGen webinar series</i>	2023
[18]	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
[19]	University of Wisconsin-Madison, WI, USA [video] <i>UW-Madison Fall 2023 Evolution Seminar Series</i>	2023
[20]	University of Wisconsin-Madison, WI, USA <i>UW-Madison Postdoctoral Research Symposium Blitz Talks Competition</i>	2023
[21]	Taming the BEAST, Squamish, BC, Canada <i>Squamish BEAST Tamers</i>	2023
[22]	Botany Meeting, Boise, ID, USA <i>Seeing the Network for the Trees Symposium</i>	2023
[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 <i>SSB Ernst Mayr Award Competition</i>	2022
[27]	Louisiana State University, Baton Rouge, LA, USA <i>Department of Biological Sciences Seminar</i>	2022
[28]	The Korean Association of Biological Sciences, Seoul, South Korea* <i>The Ecological Society of Korea Section</i>	2021
[29]	Workshop in Mathematical and Computational Biology* [video] <i>Bioinformatics Section</i>	2021
[30]	Misericordia University, Dallas, PA, USA* <i>Biology Seminar Series</i>	2021
[31]	The Stone Laboratory, Gibraltar Island, OH, USA <i>EEOB 1930 Introduction to Biological Studies–Aquatic Biology</i>	2019
[32]	Ewha Womans University, Seoul, South Korea <i>Eco-science/Eco-creative Graduate Seminar</i>	2016
[33]	Ewha Womans University, Seoul, South Korea <i>Laboratory of Behavior and Ecology Weekly Seminar</i>	2013

Additional talks

[1]	Kyoto, Japan	Scheduled in 2026
[2]	ICERM, Brown University, Providence, RI, USA <i>Research Seminar</i>	2025
[3]	Harvard University, Cambridge, MA, USA <i>Edwards Lab Weekly Lab Meeting</i>	2025
[4]	ICERM, Brown University, Providence, RI, USA <i>Grad and Postdoc talk</i>	2024
[5]	University of Wisconsin-Madison, WI, USA	2024
[6]	University of Wisconsin-Madison, WI, USA	2023
[7]	Evolution Meeting*	2021
[8]	The Ohio State University, Columbus, OH, USA*	2021
[9]	The Ohio State University, Columbus, OH, USA	2019, 2020
[10]	SSB Standalone Meeting, Gainesville, FL, USA	2020
[11]	Ewha Womans University, Seoul, South Korea	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
Universidad del Rosario, Bogota, Colombia
Collaborators: Drs. Santiago Sánchez-Pacheco and Paola Pulido-Santacruz
2024
Visiting scholar
- [2] University of Wisconsin–Madison, WI, USA
Wisconsin Institute for Discovery
Mentor: Dr. Claudia Solís-Lemus
2022
Visiting Ph.D. student
- [3] Louisiana State University, Baton Rouge, LA, USA
Department of Biological Sciences
Mentor: Dr. Jeremy Brown
2022
Visiting Ph.D. student

Research experience

- [1] Ewha Womans University, Seoul, South Korea
Division of Eco-science
Mentors: Drs. Jae Chun Choe and Yikweon Jang
2013, 2016–2017
Researcher
- [2] University of Toronto, ON, Canada
Faculty of Forestry
Mentors: Dr. Sandy Smith and Eric Davies
2011–2013
Work-study student & Biodiversity technician
- [3] Royal Ontario Museum, Toronto, ON, Canada
Centre for Biodiversity and Conservation Biology
Mentor: Dr. Robert Murphy
2012
Student researcher
- [4] University of Toronto, ON, Canada
Department of Ecology and Evolutionary Biology
Mentor: Dr. Deborah McLennan
2011–2012
Student researcher
- [5] University of Toronto, ON, Canada
Cities Centre, Department of Geography
Mentor: Dr. Kristian Larsen
2010
Student data collector

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
[2] *BIO 220* From Genomics to Ecosystems in a Changing World
[3] *EEB 362* Macroevolution
[4] *EEB 386* Avian Biology

(Summer) 2015
(Summer) 2014
(Fall) 2013
(Spring) 2015
(Fall) 2014
(Spring) 2014

(Co-)supervision of undergraduate and graduate students

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|--|-----------|
| [1] Glen Carlo Aldover (University of Santo Tomas, The Philippines)
<i>Mentoring through SSB Mentoring Program</i> | 2024–2025 |
| [2] Alanna Kong (University of Toronto)
<i>Mentored through University of Toronto Woodsworth Mentorship Program</i> | 2021–2022 |
| [3] Devansh Pandey (Indian Institute of Technology Kharagpur)
<i>Mentored through Científico Latino</i>
Currently a graduate student at University of Texas at Austin | 2021–2022 |
| [4] McKenna Molnar (The Ohio State University)
<i>Mentored through OSU EEOB Graduate Mentoring Program</i> | 2020–2021 |
| [5] Shelby Jansens and Kimberly Wiles
<i>Co-supervised with Dr. Laura Kubatko through Mathematical Biosciences Institute Research Experiences for Undergraduates program</i>
Project title: Detecting shifts in the evolutionary process in SARS-CoV-2 genomes | 2020 |
| [6] Túlio Soares and Ellen Southam
<i>Co-supervised with Dr. Pedro Bernardo at University of Toronto and Royal Ontario Museum</i> | 2014–2015 |
| [7] Shreeram Senthivasan
<i>Co-supervised with Drs. Pedro Bernardo, Santiago Sánchez-Pacheco, and Robert Murphy at University of Toronto and Royal Ontario Museum</i> | 2014 |

International workshops

Instructor

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|--|--------------------------|
| [1] Generating Realistic Synthetic Biological Data using Phylogenetics, ISMB, Washington D.C., USA | <i>Scheduled in 2026</i> |
| [2] Methodological Advances in Reticulate Evolution, Botany Meeting, Boise, ID, USA | 2023 |
| [3] 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†
<i>Instructed Introduction to Computing Laboratory</i> | 2024, 2025 |
| [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)

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|---|--------------------------|
| [1] International Workshop on Probabilistic, Combinatorial, and Algorithmic Phylogenetics, National Chengchi University, Taipei, Taiwan
<i>Speaker</i> | <i>Scheduled in 2026</i> |
| [2] RIKEN-IBS Joint Workshop, IBS, Daejeon, South Korea
<i>Speaker and chair</i> | 2025 |
| [3] Theory, Methods, and Applications of Quantitative Phylogenomics ICERM, Brown University, RI, USA
<i>Speaker; and chaired three sessions</i> | 2024 |

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|---|------|
| [4] Joint Congress on Evolutionary Biology, Montréal, QC, Canada
<i>Participated as EvoAllies for safe and inclusive meeting</i> | 2024 |
| [5] Evolution Meeting, Albuquerque, NM, USA
<i>SSB Mayr Award Abstract Reviewer &
SSE Hamilton Award Judge</i> | 2023 |
| [6] ISMB, ISCB, Madison, WI, USA
<i>Technical Moderator</i> | 2022 |
| [7] 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 |
| [8] Evolution Meeting*
<i>Chair/Moderator in multiple Faux-Live Sessions</i> | 2021 |

Participant

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| [1] The Final Southeast Center for Mathematics and Biology Symposium
Georgia Institute of Technology, Atlanta, GA, USA | 2025 |
| [2] Algorithmic Advances and Implementation Challenges:
Developing Practical Tools for Phylogenetic Inference
ICERM, Brown University, RI, USA | 2024 |
| [3] Current Methods and Open Problems in Mathematical and Statistical Phylogenetics
ICERM, Brown University, RI, USA | 2024 |
| [4] Algebraic Methods in Phylogenetics Workshop,
University of Hawai'i at Mānoa, Honolulu, HI, USA [press] | 2024 |
| [5] Wisconsin Institute for Discovery Symposium,
University of Wisconsin-Madison, WI, USA | 2022, 2023 |
| [6] Midwest Machine Learning Symposium, University of Illinois Chicago, IL, USA | 2023 |
| [7] Workshop in Mathematical and Computational Biology* | 2022 |
| [8] Annual Conference of the Korean Association of Biological Sciences, South Korea* | 2021 |
| [9] iEvoBio (Informatics for Phylogenetics, Evolution and Biodiversity), Evolution Meeting* | 2021 |
| [10] Workshop in Mathematical and Computational Biology* | 2021 |
| [11] SMRT Leiden 2021 – Young Investigator Virtual Conference* | 2021 |
| [12] Virtual Asilomar 2021, American Society of Naturalists* | 2021 |
| [13] Future of Systematics Workshop at SSB Standalone Meeting,
University of Florida, Gainesville, FL, USA | 2020 |
| [14] SSB Standalone Meeting, Gainesville, FL, USA | 2020 |
| [15] Evolution Meeting, Providence, RI, USA | 2019 |
| [16] Midwest Phylogenetics Workshop, Itasca Biological Station,
University of Minnesota, MN, USA | 2019 |
| [17] Annual Conference of the Korean Association of Biological Sciences,
Yong-In, South Korea | 2017 |
| [18] Society for Conservation Biology (SCB) Asia Section,
Workshop on Conservation policy, Bangkok, Thailand | 2017 |
| [19] World Congress of Herpetology, Hangzhou and Tonglu, China | 2016 |
| [20] Phylogenomics Symposium and Software School at SSB Standalone Meeting,
University of Michigan, Ann Arbor, MI, USA | 2015 |

OUTREACH,
SERVICE, DIVERSITY
AND INCLUSION
ACTIVITIES

- [1] Visit of students enrolled in ASCENT program at Chiba University to RIKEN [[press](#)] 2026
- [2] U.S. National Science Foundation (NSF) Mathematical Sciences Institutes 2025
Contribution to Research Highlights [[highlight](#)]
- [3] SSB Graduate Student Research Awards 2024, 2025
Reviewer
- [4] Postdoc Appreciation Week, ICERM, Brown University, Providence, RI, USA [[press](#)] 2024
- [5] Joint Congress on Evolutionary Biology, Montréal, QC, Canada 2024
Participated as EvoAllies for safe and inclusive meeting
- [6] Junior science café, Morgridge Institute for Research, WI, USA 2023
Scientist
- [7] International Mixer, Evolution Meeting, Cleveland, OH, USA 2022
- [8] International Mixer, Evolution Meeting* 2021
Moderator
- [9] Decolonizing Evolution Workshop, Evolution Meeting* 2021
Moderator
- [10] Transformative Justice within Academia:
A radical institutional reflection, The Centre for Criminology and Sociolegal Studies Graduate Student Conference, University of Toronto* 2021
- [11] Department of EEOB, The Ohio State University 2020–2021
Graduate studies Committee
- [12] Strategies for Responding to Harassment and Bullying:
Improving Workplace Climate, Evolution Community Resources for Early Career Researchers 2020 (ECR²)* 2020
Moderator
- [13] Fireside ECR Chat, ECR²* 2020
Moderator
- [14] EEOB 8894: EEOB Graduate seminar, The Ohio State University 2020
Invited Panelist
- [15] Department of EEOB, The Ohio State University 2019–2020
Admissions Committee
- [16] Museum of Biological Diversity's open house, The Ohio State University 2019
Volunteer
- [17] SCB, South Korean Chapter 2016–2017
Communication Officer
- [18] 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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