

# Sungsik Kong

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## CONTACT INFORMATION

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Last update: December 5, 2025

## 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<sup>†</sup>**, Pons JC<sup>†</sup>, 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<sup>†</sup>, **Kong S<sup>†</sup>**, 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<sup>†</sup>**, Sánchez-Pacheco S<sup>†</sup>, 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<sup>‡</sup>, Lehmberg E, **Kong S<sup>‡</sup>**. (In Review) Evaluating phylogenetic comparative methods under reticulate evolutionary scenarios
- [2] Kolbow N<sup>†</sup>, **Kong S<sup>†</sup>**, Chafin T, Justison J, Ané C, and Solís-Lemus CR. (In Review) **SNaQ.jl**: Improved scalability for phylogenetic network inference Preprint available at *BioRxiv* 10.1101/2025.11.17.688917
- [3] 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
- [4] 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
- [5] Nguyen HQ<sup>†</sup>, **Kong S<sup>†</sup>**, Bae Y, Heo J, Kang J, Jang Y. (In Review) Phylogenetic analysis of Korean cicada (Insecta: Hemiptera) species using mitochondrial and nuclear markers

### GRANTS AND AWARDS

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

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

### Additional talks

[1] ICERM, Brown University, Providence, RI, USA <i>Research Seminar</i>	2025
[2] Harvard University, Cambridge, MA, USA <i>Edwards Lab Weekly Lab Meeting</i>	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 &amp; 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

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

## Academic visit

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

## Research experience

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

## TEACHING AND MENTORING EXPERIENCE

### The Ohio State University

#### *Teaching assistant*

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

### University of Toronto

#### *Teaching assistant*

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

### (Co-)supervision of undergraduate and graduate students

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

- |     |   |      |
|-----|---|------|
| [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†<br><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)

- |     |   |                          |
|-----|---|--------------------------|
| [1] | RIKEN-IBS Joint Workshop, IBS, Daejeon, South Korea<br><i>Speaker; and chaired one session</i>  | <i>Scheduled in 2025</i> |
| [2] | Theory, Methods, and Applications of Quantitative Phylogenomics<br>ICERM, Brown University, RI, USA<br><i>Speaker; and chaired three sessions</i> | 2024                     |
| [3] | Joint Congress on Evolutionary Biology, Montréal, QC, Canada<br><i>Participated as EvoAllies for safe and inclusive meeting</i>                   | 2024                     |
| [4] | Evolution Meeting, Albuquerque, NM, USA<br><i>SSB Mayr Award Abstract Reviewer &amp;<br/>SSE Hamilton Award Judge</i>                             | 2023                     |



- [5] ISMB, ISCB, Madison, WI, USA 2022  
*Technical Moderator*
- [6] Evolution Meeting, Cleveland, OH, USA 2022  
*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.*
- [7] Evolution Meeting\* 2021  
*Chair/Moderator in multiple Faux-Live Sessions*

## Participant

- [1] The Final Southeast Center for Mathematics and Biology Symposium 2025  
Georgia Institute of Technology, Atlanta, GA, USA
- [2] Algorithmic Advances and Implementation Challenges: 2024  
Developing Practical Tools for Phylogenetic Inference  
ICERM, Brown University, RI, USA
- [3] Current Methods and Open Problems in Mathematical and Statistical Phylogenetics 2024  
ICERM, Brown University, RI, USA
- [4] Algebraic Methods in Phylogenetics Workshop, 2024  
University of Hawai'i at Mānoa, Honolulu, HI, USA [[press](#)]
- [5] Wisconsin Institute for Discovery Symposium, 2022, 2023  
University of Wisconsin-Madison, WI, USA
- [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, 2020  
University of Florida, Gainesville, FL, USA
- [14] SSB Standalone Meeting, Gainesville, FL, USA 2020
- [15] Evolution Meeting, Providence, RI, USA 2019
- [16] Midwest Phylogenetics Workshop, Itasca Biological Station, 2019  
University of Minnesota, MN, USA
- [17] Annual Conference of the Korean Association of Biological Sciences, 2017  
Yong-In, South Korea
- [18] Society for Conservation Biology (SCB) Asia Section, 2017  
Workshop on Conservation policy, Bangkok, Thailand
- [19] World Congress of Herpetology, Hangzhou and Tonglu, China 2016
- [20] Phylogenomics Symposium and Software School at SSB Standalone Meeting, 2015  
University of Michigan, Ann Arbor, MI, USA

DIVERSITY AND INCLUSION ACTIVITIES	[1] Postdoc Appreciation Week, ICERM, Brown University, Providence, RI, USA [ <a href="#">press</a> ]	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 <sup>2</sup> )* <i>Moderator</i>	2020
	[8] Fireside ECR Chat, ECR <sup>2</sup> * <i>Moderator</i>	2020
OUTREACH AND SERVICE	[1] U.S. National Science Foundation (NSF) Mathematical Sciences Institutes <i>Contribution to Research Highlights</i> [ <a href="#">highlight</a> ]	2025
	[2] SSB Graduate Student Research Awards <i>Reviewer</i>	2024, 2025
	[3] Junior science café, Morgridge Institute for Research, WI, USA <i>Scientist</i>	2023
	[4] EEOB 8894: EEOB Graduate seminar, The Ohio State University <i>Invited Panelist</i>	2020
	[5] Museum of Biological Diversity's open house, The Ohio State University <i>Volunteer</i>	2019
	[6] Department of EEOB, The Ohio State University <i>Graduate studies Committee</i>	2020–2021
	[7] Department of EEOB, The Ohio State University <i>Admissions Committee</i>	2019–2020
	[8] SCB, South Korean Chapter <i>Communication Officer</i>	2016–2017
	[9] Kuang Si Butterfly Park, Ban Thapene, Luang Prabang District, Laos <i>Volunteer Biologist</i>	2016, 2022
PEER-REVIEW ACTIVITIES	<b>Community Reviewer</b> on the Editorial Board of Evolutionary Systems Biology (specialty section of Frontiers in Systems Biology). <b>Reviewer</b> 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: $\text{\LaTeX}$ , R Markdown, Jupyter Notebook Languages: English (Fluent), Korean (Native), Japanese (Intermediate)
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