

# Sungsik Kong

## CONTACT INFORMATION

2-1 Hirosawa, C01-228  
Division of Fundamental Mathematical Science  
iTHEMS, RIKEN  
Wako, Saitama 351-0198, Japan

mobile: +81 (0)70-8443-5224  
e-mail: sungsik.kong@gmail.com  
website: sungsik-kong.github.io  
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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<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/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] Kolbow N<sup>†</sup>, **Kong S<sup>†</sup>**, 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
- [2] Morley L<sup>‡</sup>, Lehmberg E, and **Kong S<sup>‡</sup>**. (In Revision) Evaluating phylogenetic comparative methods under reticulate evolutionary scenarios
- [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] Nguyen HQ<sup>†</sup>, **Kong S<sup>†</sup>**, Bae Y, Heo J, Kang J, and Jang Y. (In Review) Phylogenetic analysis of Korean cicada (Insecta: Hemiptera) species using mitochondrial and nuclear markers
- [5] 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
- [6] **Kong S\***, Englander A, Garbett J, Nometa I, and Allman ES (In Preparation) SymbolicQuartetCF.jl: A Julia package for symbolic computation of concordance factors

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:<br>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)

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

- |  |           |
|--|-----------|
| [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] Túlio 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] Washington D.C., USA  | Scheduled in 2026 |
| [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)

- |   |            |
|---|------------|
| [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] Taipei, Taiwan  | Scheduled in 2026 |
| [2] RIKEN-IBS Joint Workshop, IBS, Daejeon, South Korea<br><i>Speaker and chair</i>   | 2025              |
| [3] Theory, Methods, and Applications of Quantitative Phylogenomics<br>ICERM, Brown University, RI, USA<br><i>Speaker; and chaired three sessions</i> | 2024              |
| [4] Joint Congress on Evolutionary Biology, Montréal, QC, Canada<br><i>Participated as EvoAllies for safe and inclusive meeting</i>                   | 2024              |

- [5] Evolution Meeting, Albuquerque, NM, USA 2023  
*SSB Mayr Award Abstract Reviewer &  
SSE Hamilton Award Judge*

[6] ISMB, ISCB, Madison, WI, USA 2022  
*Technical Moderator*

[7] 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.*

[8] Evolution Meeting\* 2021  
*Chair/Moderator in multiple Faux-Live Sessions*

## Participant

- [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	<p>[1] Visit of students enrolled in ASCENT program at Chiba University to RIKEN [<a href="#">press</a>] 2026</p> <p>[2] U.S. National Science Foundation (NSF) Mathematical Sciences Institutes 2025 <i>Contribution to Research Highlights</i> [<a href="#">highlight</a>]</p> <p>[3] SSB Graduate Student Research Awards 2024, 2025 <i>Reviewer</i></p> <p>[4] Postdoc Appreciation Week, ICERM, Brown University, Providence, RI, USA [<a href="#">press</a>] 2024</p> <p>[5] Joint Congress on Evolutionary Biology, Montréal, QC, Canada 2024 <i>Participated as EvoAllies for safe and inclusive meeting</i></p> <p>[6] Junior science café, Morgridge Institute for Research, WI, USA 2023 <i>Scientist</i></p> <p>[7] International Mixer, Evolution Meeting, Cleveland, OH, USA 2022</p> <p>[8] International Mixer, Evolution Meeting* 2021 <i>Moderator</i></p> <p>[9] Decolonizing Evolution Workshop, Evolution Meeting* 2021 <i>Moderator</i></p> <p>[10] Transformative Justice within Academia: A radical institutional reflection, The Centre for Criminology and Sociolegal Studies Graduate Student Conference, University of Toronto* 2021</p> <p>[11] Department of EEOB, The Ohio State University 2020–2021 <i>Graduate studies Committee</i></p> <p>[12] Strategies for Responding to Harassment and Bullying: Improving Workplace Climate, Evolution Community Resources for Early Career Researchers 2020 (ECR<sup>2</sup>)* 2020 <i>Moderator</i></p> <p>[13] Fireside ECR Chat, ECR<sup>2</sup>* 2020 <i>Moderator</i></p> <p>[14] EEOB 8894: EEOB Graduate seminar, The Ohio State University 2020 <i>Invited Panelist</i></p> <p>[15] Department of EEOB, The Ohio State University 2019–2020 <i>Admissions Committee</i></p> <p>[16] Museum of Biological Diversity's open house, The Ohio State University 2019 <i>Volunteer</i></p> <p>[17] SCB, South Korean Chapter 2016–2017 <i>Communication Officer</i></p> <p>[18] Kuang Si Butterfly Park, Ban Thapene, Luang Prabang District, Laos 2016, 2022 <i>Volunteer Biologist</i></p>
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#### 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<sup>A</sup>T<sub>E</sub>X, R Markdown, Jupyter Notebook

Languages: English (Fluent), Korean (Native), Japanese (Intermediate)

REFERENCES

- [1] Dr. Laura S. Kubatko  
Department of Statistics and  
Department of Evolution, Ecology, and Organismal Biology  
The Ohio State University  
219 Cockins Hall, Columbus, OH, 43210, USA  
lkubatko@stat.osu.edu  
+1 614-247-8846
- [2] Dr. Elizabeth Allman  
Department of Mathematics and Statistics  
University of Alaska Fairbanks  
1792 Ambler Lane, Fairbanks, AK, 99775, USA  
e.allman@alaska.edu  
+1 907-474-2479
- [3] Dr. Robert W. Murphy  
Reptilia Sanctuary and Education Centre and  
Department of Natural History-Royal Ontario Museum and  
Professor of Ecology and Evolutionary Biology  
University of Toronto  
100 Queen's Park, Toronto, ON, M3S 2C6, Canada  
bob.murphy.ca@gmail.com  
+1 416-721-8829