

# Sungsik Kong

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## CONTACT INFORMATION

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Last update: May 6, 2025

## PROFESSIONAL EXPERIENCE

**RIKEN, Wako, Saitama, Japan**

**Starting 2025**

*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: 8** [[Google scholar](#)]

\*Correspondence; ‡Co-correspondence; †Equal contribution

### Highlights

[22] **Kong S**, Solís-Lemus CR, and Tiley GP. (In Press) Phylogenetic networks empower speciation biology. *Proc. Natl. Acad. Sci. U.S.A*

[21] **Kong S\***, Swofford DL, and Kubatko LS. (2024) Inference of phylogenetic networks from sequence data using composite likelihood. *Systematic Biology* 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. (In Press) The promise of composite likelihood for species-level phylogenomic inference. *Evolutionary Journal of the Linnean Society*
- [13] Peng J, **Kong S**, and Kubatko L. (2024) A likelihood ratio test for hybridization under the multispecies coalescent. *Bulletin of the Society of Systematic Biologists* doi:10.18061/bssb.v3i2.9560
- [12] Fu M, Eimes JA, **Kong S**, Lamichhaney S, Waldman B (2023) Identification of major histocompatibility complex genotypes associated with resistance to an amphibian emerging infectious disease. *Infection, Genetics and Evolution* 105470 doi:10.1016/j.meegid.2023.105470
- [11] Glon H, Häussermann V, Brewin P, Brickle P, **Kong S**, Smith M, and Daly M. (2023) There and back again: The unexpected journeys of *Metridium* de Blainville, 1824 between the old oceans and throughout the modern world. *Biological Bulletin* 244:1 doi:10.1086/723800
- [10] Nguyen HQ, Ho P-T, **Kong S**, Bae Y, Pham TH, and Jang Y. (2022) A time-calibrated mitogenomic phylogeny suggests that Korean *Hyalessa fuscata* is a bridge between Chinese and Japanese *H. maculaticollis*. *Journal of Genetics* 102:9 doi:10.1007/s12041-022-01405-7
- [9] Nguyen HQ, Kim E, Bae Y, Chae S, Ji S, Heo J, **Kong S**, Nguyen TK, Pham TH, and Jang Y. (2022) An effective method for accurate life-stage delimitation of cicadas. *Journal of Asia-Pacific Entomology* 101952 doi:10.1016/j.aspen.2022.101952
- [8] Glon MG, Broe MB, Crandall KA, Daly M, **Kong S**, Thoma RF, and Freudenstein JV. (2022) Anchored hybrid enrichment resolves the *Lacunicambarus* (Decapoda: Cambaridae) phylogeny. *Journal of Crustacean Biology* 42:1 ruab073 doi:10.1093/jcabi/ruab073
- [7] Kim M, Nguyen HQ, Yi Y, Ahn J, Kim YE, Jang S, Kim S, **Kong S**, and Borzée A. (2020) Policy recommendation on whaling, trade and watching of cetaceans in the Republic of Korea. *Biodiversity Journal* 11: 255–258 doi:10.31396/Biodiv.Jour.2020.11.1.255.258
- [6] Weirunga 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**, Diding 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] 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
- [2] Morley L, Lehmberg E, **Kong S**. (In Preparation) Evaluating Phylogenetic Comparative Methods for Traits Evolving under Reticulate Scenarios
- [3] Nguyen HQ, **Kong S**, Bae Y, Heo J, Kang J, Jang Y. (In Preparation) Phylogenetic analysis of Korean cicada (Insecta: Hemiptera) species
- [4] Kolbow N, **Kong S**, and Solís-Lemus CR. (In Preparation) A method for massively scalable phylogenetic network inference
- [5] Kolbow N, **Kong S**, Chafin T, and Solís-Lemus CR. (In Preparation) SNaQ2: Improved scalability for phylogenetic network inference

#### GRANTS AND AWARDS

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

#### Highlights

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

## Other grants

[1]	Funding for participation in Algebraic Methods in Phylogenetics Workshop (NSF)	2024
[2]	UW-Madison Department of Plant Pathology Travel Award [\$500]	2024
[3]	EvolCompGen Best Poster Award, ISMB, ISCB [\$100]	2022
[4]	EEOB Graduate Development Grant, The Ohio State University [Funded]	2022
[5]	EEOB Graduate Evolution & Ecology Student Organization (GEES) Career Development Grant, The Ohio State University [\$200]	2022
[6]	Council of Graduate Students (CGS) Career Development Grant, The Ohio State University [\$350]	2022
[7]	EEOB Darwin Talk Society Membership Grant, The Ohio State University [\$70]	2021
[8]	EEOB Graduate Development Grant, The Ohio State University	2021
[9]	Funding for participation in Future of Systematics Workshop, SSB Standalone Meeting (NSF) [\$500]	2020
[10]	Funding for participation in Midwest Phylogenetics Workshop (NSF)	2019
[11]	EEOB Graduate Development Grant, The Ohio State University	2019
[12]	University of Toronto Undergraduate Bursaries [ $\dagger \approx \$3,000$ ]	2010–2012

## TALKS AND PRESENTATIONS

### Invited talks (\*Virtual presentation)

[1]	New Jersey Institute of Technology (NJIT), Newark, NJ, USA <i>Mathematical Biology Seminar</i>	2025
[2]	Rutgers University-Camden, Camden, NJ, USA <i>Biology Seminar Series</i>	2025
[3]	Universidad del Rosario, Bogotá, Colombia [ <a href="#">press</a> ] <i>Seminario de investigación</i>	2024
[4]	Universidad Nacional de Colombia, Sede La Paz, Cesar, Colombia Guest speaker in undergraduate course <i>L000322: Sistemática aplicada (Applied Systematics)</i>	2024
[5]	Creighton University, Omaha, NE, USA <i>Department of Mathematics Colloquium Series</i>	2024
[6]	ICERM, Brown University, Providence, RI, USA <i>From Phylogenetics to Phylogenomics: Mathematical and Statistical Challenges in the era of Big Data Workshop</i>	2024
[7]	ICERM, Brown University, Providence, RI, USA <i>Daily Discovery</i>	2024
[8]	Joint Congress on Evolutionary Biology, Montréal, QC, Canada <i>Networks in Population Genetics and Phylogenetics: Theory, Methods, and Applications Symposium</i>	2024
[9]	University of Hawai'i at Mānoa, Honolulu, HI, USA <i>Algebraic Methods in Phylogenetics Workshop, Just-in-time talk</i>	2024
[10]	University of Science and Technology of Hanoi, Vietnam Academy of Science and Technology, Hanoi, Vietnam [ <a href="#">press</a> ]	2024
[11]	Sungshin Women's University, Seoul, South Korea	2024
[12]	Ewha Womans University, Seoul, South Korea	2024
[13]	The International Society for Computational Biology (ISCB), Society for Molecular Biology and Evolution (SMBE)* [ <a href="#">video</a> ] <i>EvolCompGen webinar series</i>	2023

- [14] Society for Industrial and Applied Mathematics, 2023  
New York-New Jersey-Pennsylvania Section (SIAM-NNP),  
NJIT, Newark, NJ, USA  
*Mathematics of Evolution Minisymposium*
- [15] University of Wisconsin-Madison, WI, USA [\[video\]](#) 2023  
*UW-Madison Fall 2023 Evolution Seminar Series*
- [16] University of Wisconsin-Madison, WI, USA 2023  
*UW-Madison Postdoctoral Research Symposium Blitz Talks Competition*
- [17] Taming the BEAST, Squamish, BC, Canada 2023  
*Squamish BEAST Tamers*
- [18] Botany Meeting, Boise, ID, USA 2023  
*Seeing the Network for the Trees Symposium*
- [19] Algorithms and Complexity in Phylogenetics\* [\[video\]](#) 2022
- [20] Indiana University, Bloomington, IN, USA 2022
- [21] University of California San Diego, CA, USA\* 2022
- [22] Evolution Meeting, Cleveland, OH, USA 2022  
*SSB Ernst Mayr Award Competition*
- [23] Louisiana State University, Baton Rouge, LA, USA 2022  
*Department of Biological Sciences Seminar*
- [24] The Korean Association of Biological Sciences, Seoul, South Korea\* 2021  
*The Ecological Society of Korea Section*
- [25] Workshop in Mathematical and Computational Biology\* [\[video\]](#) 2021  
*Bioinformatics Section*
- [26] Misericordia University, Dallas, PA, USA\* 2021  
*Biology Seminar Series*
- [27] The Stone Laboratory, Gibraltar Island, OH, USA 2019  
*EEOB 1930 Introduction to Biological Studies–Aquatic Biology*
- [28] Ewha Womans University, Seoul, South Korea 2016  
*Eco-science/Eco-creative Graduate Seminar*
- [29] Ewha Womans University, Seoul, South Korea 2013  
*Laboratory of Behavior and Ecology Weekly Seminar*

#### Additional talks

- [1] ICERM, Brown University, Providence, RI, USA 2025  
*Research Seminar*
- [2] Harvard University, Cambridge, MA, USA 2025  
*Edwards Lab Weekly Lab Meeting*
- [3] ICERM, Brown University, Providence, RI, USA 2024  
*Grad and Postdoc talk*
- [4] University of Wisconsin-Madison, WI, USA 2024  
*Friday@4*
- [5] University of Wisconsin-Madison, WI, USA 2023  
*Wisconsin Institute for Discovery Symposium*
- [6] Evolution Meeting\* 2021
- [7] The Ohio State University, Columbus, OH, USA\* 2021  
*EEOB Annual Darwin Series*

- |      |   |            |
|------|---|------------|
| [8]  | The Ohio State University, Columbus, OH, USA<br><i>Evolution &amp; Ecology Club</i> | 2019, 2020 |
| [9]  | SSB Standalone Meeting, Gainesville, FL, USA  | 2020       |
| [10] | Ewha Womans University, Seoul, South Korea<br><i>Animal Communication Symposium</i> | 2017       |

#### Poster presentations

- |     |  |      |
|-----|--|------|
| [1] | Brown University, Providence, RI, USA<br><i>Brown Postdoctoral Research Symposium</i>  | 2025 |
| [2] | Intelligent Systems for Molecular Biology (ISMB), ISCB, Madison, WI, USA<br><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),<br>Young Generation Technical and Leadership Conference (YGTLC), Houston, TX, USA | 2014 |
| [6] | University of Toronto, Toronto, ON, Canada<br><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<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; 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 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, [Planned in 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] Theory, Methods, and Applications of Quantitative Phylogenomics 2024  
ICERM, Brown University, RI, USA  
*Speaker; and chaired three sessions*
- [2] Joint Congress on Evolutionary Biology, Montréal, QC, Canada 2024  
*Participated as EvoAllies for safe and inclusive meeting*
- [3] Evolution Meeting, Albuquerque, NM, USA 2023  
*SSB Mayr Award Abstract Reviewer &  
SSE Hamilton Award Judge*
- [4] ISMB, ISCB, Madison, WI, USA 2022  
*Technical Moderator*
- [5] 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.*
- [6] 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, RI, USA [[press](#)] 2024
- [2] International Mixer, Evolution Meeting, Cleveland, OH, USA 2022
- [3] International Mixer, Evolution Meeting\* 2021  
*Moderator*
- [4] Decolonizing Evolution Workshop, Evolution Meeting\* 2021  
*Moderator*
- [5] Transformative Justice within Academia: 2021  
A radical institutional reflection, The Centre for Criminology and  
Sociological Studies Graduate Student Conference, University of Toronto\*

	[6] 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
	[7] Fireside ECR Chat, ECR <sup>2</sup> * <i>Moderator</i>	2020
OUTREACH AND SERVICE	[1] The Society's Graduate Student Research Awards <i>Reviewer</i>	2024
	[2] Junior science café, Morgridge Institute for Research, WI, USA <i>Scientist</i>	2023
	[3] EEOB 8894: EEOB Graduate seminar, The Ohio State University <i>Invited Panelist</i>	2020
	[4] Museum of Biological Diversity's open house, The Ohio State University <i>Volunteer</i>	2019
	[5] Department of EEOB, The Ohio State University <i>Graduate studies Committee</i>	2020–2021
	[6] Department of EEOB, The Ohio State University <i>Admissions Committee</i>	2019–2020
	[7] SCB, South Korean Chapter <i>Communication Officer</i>	2016–2017
	[8] Kuang Si Butterfly Park, Ban Thapene, Luang Prabang District, Laos <i>Volunteer Biologist</i>	2016, 2022
PEER-REVIEW ACTIVITIES	<b>Review Editor</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; Evolutionary Journal of the Linnean Society; 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)	