

# Sungsik Kong

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## CONTACT INFORMATION

121 South Main Street, 11F, Box E,  
Institute for Computational and  
Experimental Research in Mathematics,  
Brown University,  
Providence, RI., 02906, USA

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*website:* sungsik-kong.github.io

## PROFESSIONAL EXPERIENCE

**Brown University, Providence, Rhode Island, USA**  
*Institute for Computational and Experimental Research in Mathematics  
(ICERM)*

**Present**  
*Postdoctoral fellow  
in Mathematics*

**University of Wisconsin-Madison, Madison, Wisconsin, USA**  
*Wisconsin Institute for Discovery:*  
*State-funded interdisciplinary scientific research institution*  
Mentor: Dr. Claudia Solís-Lemus

**2023-2024**  
*Postdoctoral research associate*

## EDUCATION

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

**2018-2022**

2022

**University of Toronto, Toronto, Ontario, Canada**  
*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

**2013-2015**

**University of Toronto, Toronto, Ontario, Canada**  
*B.Sc. in Zoology and Ecology and Evolutionary Biology*  
Undergraduate thesis advisors: Drs. Robert W. Murphy and Deborah A. McLennan

**2006-2012**

## PUBLICATIONS

**Total number:** 20  
**h-index:** 7 [[Google scholar](#)]  
\*Correspondence; ‡Co-correspondence; †Equal contribution

### Highlights

- [20] **Kong S\***, Swofford DL, and Kubatko LS. (In Press) Inference of phylogenetic networks from sequence data using composite likelihood. *Systematic Biology*; Preprint available on *bioRxiv* at doi: 10.1101/2022.11.14.516468v1
- [19] **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
- [18] **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
- [17] **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

- [16] **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
- [15] 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
- [14] **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

- [13] Peng J, **Kong S**, and Kubatko L. (In Press) A likelihood ratio test for hybridization under the multispecies coalescent. *Bulletin of the Society of Systematic Biologists*; Preprint available on *bioRxiv* at doi:10.1101/2023.06.20.545699
- [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] Weirringa 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 *Hymobius* 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

### Policy recommendation

- [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**, Solís-Lemus CR, and Tiley GP. (In Review) Phylogenetic networks empower speciation biology
- [2] Fonseca EM, Camurugi F, Magalhães FM, **Kong S**, Colli GR, Werneck FP, and Carstens BC. (In Preparation) Geographic distance, rivers, and historical climate explain genetic structure and differentiation in a widely distributed tropical skink
- [3] 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\$87,000

### Highlights

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|--|-----------|
| [1] ICERM Semester Postdoctoral Fellowship, Brown University [\$36,600]  | 2024      |
| [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 of Study of Evolution (SSE) Graduate Research Excellence Grant [\$1,800]<br><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

- |  |      |
|--|------|
| [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)<br>Career Development Grant, The Ohio State University [\$200] | 2022 |
| [6] Council of Graduate Students (CGS) Career Development Grant,<br>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 [Funded]  | 2021 |
| [9] Funding for participation in Future of Systematics Workshop,<br>SSB Standalone Meeting (NSF) [\$500]                         | 2020 |
| [10] Funding for participation in Midwest Phylogenetics Workshop (NSF) [Funded]  | 2019 |

- |  |           |
|--|-----------|
| [11] EEOB Graduate Development Grant, The Ohio State University [Funded]         | 2019      |
| [12] University of Toronto Undergraduate Bursaries [ $\dagger \approx \$3,000$ ] | 2010–2012 |

TALKS AND  
PRESENTATIONS

**Invited talks (\*Virtual presentation)**

- |  |                          |
|--|--------------------------|
| [1] Creighton University, Omaha, NE., USA<br><i>Department of Mathematics Colloquium Series</i>  | <i>Scheduled in 2024</i> |
| [2] ICERM, Brown University, Providence, RI., USA<br><i>From Phylogenetics to Phylogenomics:<br/>Mathematical and Statistical Challenges in the era of Big Data Workshop</i>   | <i>Scheduled in 2024</i> |
| [3] ICERM, Brown University, Providence, RI., USA<br><i>Daily Discovery</i>  | 2024                     |
| [4] Joint Congress on Evolutionary Biology, Montréal, QC., Canada<br><i>Networks in Population Genetics and Phylogenetics:<br/>Theory, Methods, and Applications Symposium</i>   | 2024                     |
| [5] University of Hawai'i at Mānoa, Honolulu, HI., USA<br><i>Algebraic Methods in Phylogenetics Workshop, Just-in-time talk</i>  | 2024                     |
| [6] University of Science and Technology of Hanoi,<br>Vietnam Academy of Science and Technology, Hanoi, Vietnam [ <a href="#">press</a> ]  | 2024                     |
| [7] Sungshin Women's University, Seoul, South Korea  | 2024                     |
| [8] Ewha Womans University, Seoul, South Korea   | 2024                     |
| [9] The International Society for Computational Biology (ISCB),<br>Society for Molecular Biology and Evolution (SMBE)*<br><i>EvolCompGen webinar series</i>  | 2023                     |
| [10] Society for Industrial and Applied Mathematics,<br>New York-New Jersey-Pennsylvania Section (SIAM-NNP),<br>New Jersey Institute of Technology (NJIT), Newark, NJ., USA<br><i>Mathematics of Evolution Minisymposium</i> | 2023                     |
| [11] University of Wisconsin-Madison, WI., USA [ <a href="#">video</a> ]<br><i>UW-Madison Fall 2023 Evolution Seminar Series</i>   | 2023                     |
| [12] University of Wisconsin-Madison, WI., USA<br><i>UW-Madison Postdoctoral Research Symposium Blitz Talks Competition</i>  | 2023                     |
| [13] Taming the BEAST, Squamish, BC., Canada<br><i>Squamish BEAST Tamers</i>   | 2023                     |
| [14] Botany Meeting, Boise, ID., USA<br><i>Seeing the Network for the Trees Symposium</i>  | 2023                     |
| [15] Algorithms and Complexity in Phylogenetics* [ <a href="#">video</a> ]   | 2022                     |
| [16] Indiana University, Bloomington, IN., USA   | 2022                     |
| [17] University of California San Diego, CA., USA*   | 2022                     |
| [18] Evolution Meeting, Cleveland, OH., USA<br><i>SSB Ernst Mayr Award Competition</i>   | 2022                     |
| [19] Louisiana State University, Baton Rouge, LA., USA<br><i>Department of Biological Sciences Seminar</i>   | 2022                     |
| [20] The Korean Association of Biological Sciences, Seoul, South Korea*<br><i>The Ecological Society of Korea Section</i>  | 2021                     |
| [21] Workshop in Mathematical and Computational Biology* [ <a href="#">video</a> ]<br><i>Bioinformatics Section</i>  | 2021                     |

- [22] Misericordia University, Dallas, PA., USA\* 2021  
*Biology Seminar Series*
- [23] The Stone Laboratory, Gibraltar Island, OH., USA 2019  
*EEOB 1930 Introduction to Biological Studies–Aquatic Biology*
- [24] Ewha Womans University, Seoul, South Korea 2016  
*Eco-science/Eco-creative Graduate Seminar*
- [25] Ewha Womans University, Seoul, South Korea 2013  
*Laboratory of Behavior and Ecology Weekly Seminar*

#### Additional talks

- [1] University of Wisconsin-Madison, WI., USA 2024  
*Friday@4*
- [2] University of Wisconsin-Madison, WI., USA 2023  
*Wisconsin Institute for Discovery Symposium*
- [3] Evolution Meeting\* 2021
- [4] The Ohio State University, Columbus, OH., USA\* 2021  
*EEOB Annual Darwin Series*
- [5] The Ohio State University, Columbus, OH., USA 2019, 2020  
*Evolution & Ecology Club*
- [6] SSB Standalone Meeting, Gainesville, FL., USA 2020
- [7] Ewha Womans University, Seoul, South Korea 2017  
*Animal Communication Symposium*

#### Poster presentations

- [1] Intelligent Systems for Molecular Biology (ISMB), ISCB, Madison, WI., USA 2022  
*Best Poster Award Winner*
- [2] Evolution Meeting, Providence, RI., USA 2019
- [3] The Korean Association of Biological Sciences, Yong-In, South Korea 2017
- [4] Korean-American Scientists and Engineers Association (KSEA), 2014  
Young Generation Technical and Leadership Conference (YGTLC), Houston, TX., USA
- [5] University of Toronto, Toronto, ON., Canada 2012  
*Department of Ecology and Evolutionary Biology undergraduate research Fair*

#### ACADEMIC EXPERIENCE

#### Fieldwork experience

- [1] Indonesia (volunteer) 2016
  - Javan gibbons behaviors research at Mount Halimun Salak National Park
- [2] Laos (volunteer) 2016, 2023
  - Butterfly taxonomy 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] | 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> |
| [2] | 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 (M.Sc. student from the Philippines)<br><i>Mentoring through SSB Mentoring Program</i>  | Present   |
| [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)*

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|-----|--|------|
| [1] | Workshop on Molecular Evolution, Woods Hole, MA., USA†<br><i>Instructed Introduction to Computing Laboratory</i> | 2024 |
| [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] | Joint Congress on Evolutionary Biology, Montréal, Quebec, Canada<br><i>Participated as EvoAllies for safe and inclusive meeting</i>  | 2024 |
| [2] | Evolution Meeting, Albuquerque, NM., USA<br><i>SSB Mayr Award Abstract Reviewer &amp; SSE Hamilton Award Judge</i>   | 2023 |
| [3] | ISMB, ISCB, Madison, WI., USA<br><i>Technical Moderator</i>  | 2022 |
| [4] | Evolution Meeting, Cleveland, OH., USA<br><i>SSB Symposium Co-organizer (with Dr. Md Rejuan Haque)</i><br><i>Symposium title: Towards the network of life: Phylogenetic networks as a tool to understand complex evolutionary histories.</i> | 2022 |

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

### Participant

- [1] Algebraic Methods in Phylogenetics Workshop, 2024  
University of Hawai'i at Mānoa, Honolulu, HI., USA [[press](#)]
- [2] Wisconsin Institute for Discovery Symposium, 2022, 2023  
University of Wisconsin-Madison, WI., USA
- [3] Midwest Machine Learning Symposium, University of Illinois Chicago, IL., USA 2023
- [4] Workshop in Mathematical and Computational Biology\* 2022
- [5] Annual Conference of the Korean Association of Biological Sciences, South Korea\* 2021
- [6] iEvoBio (Informatics for Phylogenetics, Evolution and Biodiversity), Evolution Meeting\* 2021
- [7] Workshop in Mathematical and Computational Biology\* 2021
- [8] SMRT Leiden 2021 – Young Investigator Virtual Conference\* 2021
- [9] Virtual Asilomar 2021, American Society of Naturalists\* 2021
- [10] Future of Systematics Workshop at SSB Standalone Meeting, 2020  
University of Florida, Gainesville, FL., USA
- [11] SSB Standalone Meeting, Gainesville, FL., USA 2020
- [12] Evolution Meeting, Providence, RI., USA 2019
- [13] Midwest Phylogenetics Workshop, Itasca Biological Station, 2019  
University of Minnesota, MN., USA
- [14] Annual Conference of the Korean Association of Biological Sciences, 2017  
Yong-In, South Korea
- [15] Society for Conservation Biology (SCB) Asia Section, 2017  
Workshop on Conservation policy, Bangkok, Thailand
- [16] World Congress of Herpetology, Hangzhou and Tonglu, China 2016
- [17] Phylogenomics Symposium and Software School at SSB Standalone Meeting, 2015  
University of Michigan, Ann Arbor, MI., USA

### DIVERSITY AND INCLUSION ACTIVITIES

- [1] Joint Congress on Evolutionary Biology, Montréal, Quebec, Canada 2024  
*Participated as EvoAllies for safe and inclusive meeting*
- [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: 2020  
Improving Workplace Climate, Evolution Community Resources for  
Early Career Researchers 2020 (ECR<sup>2</sup>)\*  
*Moderator*
- [7] Fireside ECR Chat, ECR<sup>2</sup>\* 2020  
*Moderator*



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      **Review Editor** 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; Infection, Genetics and Evolution; PLOS Computational Biology; F1000Research; Journal of Mathematical Biology; Bulletin of Mathematical Biology; Ecology and Evolution; Zoological Systematics; 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 (Ph.D. advisor)  
Department of Statistics and  
Department of Evolution, Ecology, and Organismal Biology  
The Ohio State University  
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[2] Dr. Claudia Solís-Lemus (Postdoc advisor)  
Wisconsin Institute for Discovery  
Department of Plant Pathology  
University of Wisconsin-Madison  
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[3] Dr. Robert W. Murphy (M.Sc. advisor)  
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  
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- [4] Dr. Elizabeth Allman  
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