

Sungsik Kong
Department of Evolution, Ecology
and Organismal Biology
The Ohio State University
375 Jennings Hall & 356 Aronoff Laboratory
<http://minglabaaa.github.io/>
sungsik.kong@gmail.com

Education

2018 - Present	Ph.D.	Evolution, Ecology, and Organismal Biology Advisor: Dr. Laura Kubatko	The Ohio State University
2013 - 2015	M.Sc.	Ecology and Evolutionary Biology Advisor: Dr. Robert Murphy	University of Toronto
2006 - 2012	B.Sc.	Ecology and Evolutionary Biology and Zoology Advisors: Drs. Deborah McLennan and Robert Murphy	University of Toronto

Publications

Peer-reviewed Journal Articles

[‡]Co-correspondence; [†]Equal contribution

9. **Kong S** and Kubatko L. (*in review*) Comparative performance of popular methods for hybrid detection using genomic data. Preprint available on *BioRxiv* doi: <https://doi.org/10.1101/2020.07.27.224022>
8. Sánchez-Pacheco S[‡], **Kong S**[†], Pulido-Santacruz P, Murphy RW, and Kubatko L. (2020) Median-joining network analysis of SARS-CoV-2 genomes is neither phylogenetic nor evolutionary *Proc. Natl. Acad. Sci. U.S.A* doi: 10.1073/pnas.2007062117
7. 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
6. Borzée A, Purevdorj Z, Kim YI, **Kong S**, Choe M, Yi Y, Kim K, Kim A, 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
5. Groffen J, **Kong S**, Jang Y, 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
4. Bae Y, **Kong S**, Yi Y, Jang Y, 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. Borzée A, **Kong S**, Didinger C, Nguyen HQ, 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

2. Kim K, **Kong S**, Kim YI, Borzée A, Bae Y, 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
1. **Kong S[†]**, Sánchez-Pacheco S[†] and Murphy RW. (2016) On the use of Median-Joining Networks in evolutionary biology. *Cladistics* 32: 691–699 doi: 10.1111/cla.12147

Policy Recommendations

2. Kim M, Nguyen HQ, Yi Y, Ahn J, Kim YE, Jang S, Kim S, **Kong S**, Borzée A. (2020) Policy recommendation on whaling, trade and watching of cetaceans in the Republic of Korea. *Biodiversity Journal* 11: 255–258 doi: <https://doi.org/10.31396/Biodiv.Jour.2020.11.1.255.258>
1. Borzée A, Nguyen HQ, Ahn J, Kim M, Kim S, Jang S, **Kong S**, Kim YE, 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*

Presentations

- | | |
|------|---|
| 2020 | Talk E&E Club, The Ohio State University, OH., USA. <i>Which tool to use to detect hybridization?</i> |
| 2020 | Talk SSB Meeting, Gainesville, FL., USA. <i>Comparison and evaluation on the accuracy of popular hybrid detection methods using simulated data.</i> |
| 2019 | Talk E&E Club, The Ohio State University, OH., USA. <i>The giving tree: how the branching pattern of a tree is used in evolutionary biology.</i> |
| 2019 | Poster Evolution, Providence, RI., USA. <i>Performance and accuracy of Median-Joining Networks and comparisons with bayesian phylogenies.</i> |
| 2019 | Invited Talk The Stone Laboratory: EEOB 1930, Gibraltar Island, OH., USA. <i>Phylogenetic networks and behavioral evolution of Primates.</i> |
| 2019 | Poster The Ohio State University Department of EEOB Recruitment weekend <i>My first year of Ph.D. experience at the Ohio State University.</i> |
| 2017 | Poster Annual Conference of the Korean Association of Biological Sciences, Yongin, South Korea. <i>Performance and accuracy of Median-Joining Networks and comparisons with bayesian phylogenies.</i> |
| 2017 | Talk Ewha Womans University Animal Communication Symposium, Seoul, South Korea. <i>Illustrating hybridization.</i> |
| 2016 | Invited Talk Ewha Womans University Eco-science/Eco-creative seminar for graduate students, Seoul, South Korea. <i>On the use of Median-Joining network.</i> |
| 2014 | Poster Korean-American Scientists and Engineers Association (KSEA) Young Generation Technical and Leadership Conference (YGTLC), Houston, TX., USA. <i>Matrilineal relationships of green pitvipers with the description of a new species of the genus Trimeresurus (Squamata: Viperidae: Crotalinae) from the central highlands of Vietnam.</i> |
| 2013 | Talk Ewha Womans' University, Laboratory of Behavior and Ecology Weekly Seminar, Seoul, South Korea. <i>The evolution of infanticide and male takeover in primates in a macro-evolutionary framework.</i> |
| 2012 | Poster University of Toronto Ecology and Evolutionary Biology Undergraduate Research Fair, Toronto, ON., Canada. <i>The evolution of infanticide and male takeover in primates in a macro-evolutionary framework.</i> |

Additional Academic Experiences

2020	Moderator Strategies for Responding to Harassment and Bullying: Improving Workplace Climate, Evolution Community Resources for Early Career Researchers 2020 (ECR ²), virtual
2020	Moderator Fireside ECR Chat, ECR ² , virtual
2020	Invited Guest TDAI Kickoff Event, College of Arts and Sciences, the Ohio State University, Columbus, OH., USA
2020	Participant Future of Systematics Workshop, SSB Meeting, funded by NSF, hosted by Dr. Emily Sessa, University of Florida, Gainesville, FL., USA
2020	Participant SSB Meeting, Gainesville, FL., USA
2019	Participant Evolution, Providence, RI., USA
2019	Participant Midwest Phylogenetics Workshop, Itasca Biological Station, funded by NSF, hosted by Dr. Emma Goldberg, University of Minnesota, MN., USA
2019	Volunteer Museum of Biological Diversity's Open House, the Ohio State University, OH., USA
2017	Participant Society for Conservation Biology (SCB) Asia Section Workshop on Conservation policy, funded and hosted by SCB, Bangkok, Thailand
2016 - 2017	Researcher with Dr. Yikweon Jang, Ewha Womans University, Division of Ecoscience, Seoul, South Korea
2016 - 2017	Communication Officer Society for Conservation Biology, Korean Chapter, South Korea
2016	Researcher Konkuk University, School of Medicine, Seoul, South Korea
2016	Participant World Congress of Herpetology, Hangzhou and Tonglu, China
2016	Volunteer Kuang Si Butterfly Park, Luang Prabang, Laos
2015	Participant Phylogenomics Symposium and Software School, funded by NSF, hosted by Dr. Tandy Warnow (University of Illinois at Urbana-Champaign), University of Michigan, Ann Arbor, MI., USA
2015	Participant Society for Systematic Biologists (SSB) Meeting, Ann Arbor, MI., USA
2013	Researcher with Dr. Jae Chun Choe, Ewha Womans University, Division of Ecoscience, Seoul, South Korea
2012	Student Researcher with Dr. Robert Murphy, Centre for Biodiversity and Conservation Biology, Royal Ontario Museum, Toronto, ON., Canada
2011 - 2013	Biodiversity Technician with Dr. Sandy Smith and Eric Davies, Urban Biodiversity and Forestry Laboratory, University of Toronto, ON., Canada
2011 - 2012	Student Researcher with Dr. Deborah McLennan, McLennan Laboratory, University of Toronto, Canada
2011 - 2011	Work-Study Student Wildlife Ecology Laboratory, University of Toronto, Canada
2010	Field Research Assistant Cities Centre, University of Toronto, Canada

Students advising

2020 Summer	Shelby Jansens and Kimberly Wiles, co-advised with Dr. Laura Kubatko, MBI REU program
-------------	---

Grants and Awards

2020	SSE Graduate Research Excellence Grant (GREG) – R.C. Lewontin Award competition	\$1800
2020	Ray Travel Award for Service and Scholarship, the Ohio State University	Unfunded
2019	Ray Travel Award for Service and Scholarship, the Ohio State University	Unfunded
2014	E.M. Walker Graduate Award in Biodiversity, University of Toronto	\$2615

2013 - 2014	University of Toronto Fellowship	
2011	University of Toronto Undergraduate Bursary	Funded

Professional Services

2019 - Present	Journal reviewer for: <i>Systematic Biology</i> ; <i>Frontiers of Biogeography</i> ; <i>Infection, Genetics and Evolution</i> ;
2015 - Present	Society Memberships: Society of Systematic Biologists, Society for Study of Evolution
2019 - 2020	Admissions Committee, Department of Evolution, Ecology and Organismal Biology, The Ohio State University, OH., USA
2020 - 2021	Graduate Studies Committee, Department of Evolution, Ecology and Organismal Biology, The Ohio State University, OH., USA
2020 - Present	GSMI Mentor, Científico Latino

Teaching Experiences

Courses taught

2018 - Present	Teaching Assistant The Ohio State University <i>BIOL 1113</i> Energy Transformation and Development <i>EEOB 3310</i> Evolution <i>EEOB 1930</i> Introduction to Biological Studies - Aquatic Biology
2013 - 2015	Teaching Assistant University of Toronto <i>BIO 120</i> Adaptation and Biodiversity <i>BIO 220</i> From Genomics to Ecosystems in a Changing World <i>EEB 362</i> Macroevolution <i>EEB 386</i> Avian Biology

References

1. Prof. Dr. Laura S. Kubatko
Department of Statistics,
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. Prof. Dr. Robert W. Murphy
Sr. Curator, Herpetology
Centre for Biodiversity and Conservation Biology
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@utoronto.ca
+1 416-586-8099
3. Prof. Dr. Deborah A. McLennan
Department of Ecology and Evolutionary Biology
University of Toronto,
25 Harbord St.
Toronto, ON., M5S 3G5, Canada
deborah.mclennan@utoronto.ca
+1 416-978-8538