

Curriculum Vitae

Jonathan Julio Fong

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Current Position:

2015–pres Lingnan University, Hong Kong Assistant Professor

Previous Scientific Positions:

2013–2015	Seoul National University, Korea	Lecturer & Postdoctoral Fellow
2011–2013	Seoul National University, Korea	Postdoctoral Fellow
2006–2007	Museum of Vertebrate Zoology, USA	Curatorial Assistant
2003–2004	DOE Joint Genome Institute, USA	Research Associate
2001–2003	Loma Linda University, USA	Research Assistant
2000	Swire Institute of Marine Sciences, Hong Kong	Research Assistant
1998–2001	University of California, Berkeley, USA	Research Assistant

Education:

2011	Ph.D. Integrative Biology	University of California, Berkeley
2006	M.S. Biology	Loma Linda University
2000	B.A. Integrative Biology, Minor: Education	University of California, Berkeley

Publications (in review)

- 4) Lin Y, Chen Y, Yi C, **Fong JJ**, Kim W, Rius M, Zhan A. Genetic signatures of rapid local adaptation in a model invasive ascidian. *Submitted to Scientific Reports*.
- 3) **Fong JJ**, Grioni A, Crow P, Cheung K. Morphological and genetic verification of *Ovophis tonkinensis* in Hong Kong. *Submitted to Asian Herpetological Research*.
- 2) Yang B, Zhou Y, Min M, Matsui M, Dong B, Li P, **Fong JJ**. Diversity and phylogeography of brown frogs allied to *Rana dybowskii* (Anura, Ranidae). *Submitted to Molecular Phylogenetics and Evolution*.
- 1) Lee WD, **Fong JJ**, Eimes JA, Lim YW. Metagenomic diversity of human-pathogenic fungal diversity associated with urban pigeon feces. *Submitted to Molecular Ecology*.

Publications (Peer Reviewed):

- 42) Oh SY, **Fong JJ**, Park MS, Lim YW (2016) Distinctive feature of microbial communities and bacterial functional profiles in *Tricholoma matsutake* dominant soil. *PLoS One* 11: e016857.
- 41) **Fong JJ**, Cho HJ, Park MS, Lim YW (2016) Evaluating seasonality and pathogenicity of *Aeromonas* in Korea using environmental DNA. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences* 18: 605–613.
- 40) **Fong JJ**, Li P-P, Yang B-T, Zhou Z-Y, Leache AD, Min M-S, Waldman B (2016) Influence of geology and human activity on the genetic structure and demography of the Oriental fire-bellied toad (*Bombina orientalis*). *Molecular Phylogenetics and Evolution* 97: 69–75.
- 39) Cho HJ, Park MS, Lee H, Oh S-Y, Jang Y, **Fong JJ**, Lim YW (2015) Four new species of *Amanita* in Inje County, Korea. *Mycobiology* 43: 408–414.
- 38) Jargalmaa S, Park MS, Park JY, **Fong JJ**, Jang Y, Lim YW (2015) Taxonomic study of the genus *Abundisporus* in Korea. *Mycobiology* 43: 225–230.

- 37) Zhou Y, Yang B-T, Min M-S, Li P-P, **Fong JJ**, Dong B-J, Zhou Z-Y, Lu Y-Y (2015) Molecular and morphological evidence for *Rana kunyuensis* as a junior synonym of *Rana coreana* (Anura: Ranidae). *Journal of Herpetology* 49: 302–307.
- 36) Lee H, Park MS, Jung PE, **Fong JJ**, Oh S-Y, Verbeken A, Lim YW (2015) *Lactarius cucurbitinus* (Russulales, Basidiomycota), a new species from South Korea supported by molecular and morphological data. *Phytotaxon* 205: 168–176.
- 35) Park MS, Eom JE, **Fong JJ**, Lim YW (2015) New record and enzyme activity of four *Penicillium* species section *Citrina* from marine environments in Korea. *Journal of Microbiology* 53: 219–225.
- 34) **Fong JJ**, Cheng TL, Bataille A, Pessier AP, Waldman B, Vredenburg VT (2015) Early 1900s detection of *Batrachochytrium dendrobatidis* in Korean amphibians. *PLoS One* 10: e0115656.
- 33) Park MS, **Fong JJ**, Oh S-Y, Houbraken J, Sohn JH, Hong S-B, Lim YW (2015) *Penicillium jejuense* sp. nov., isolated from the marine environments of Jeju Island, Korea. *Mycologia* 107: 209–216.
- 32) Heo J-H, Lee H-J, Kim I-H, **Fong JJ**, Kim J-K, Jeong S, Park D (2014) Can an invasive prey species induce morphological changes in an endemic predator? Evidence from a South Korean snake (*Oocatochus rufudorsatus*). *Asian Herpetological Research* 5: 245–254.
- 31) Min YJ, Park MS, **Fong JJ**, Seok SJ, Han S-K, Lim YW (2014) Molecular taxonomical re-classification of the genus *Suillus* Micheli ex S.F. Gray in South Korea. *Mycobiology* 42: 221–228.
- 30) Jung PE, **Fong JJ**, Park MS, Oh S-Y, Kim C, Lim YW (2014) Sequence validation for the identification of the white-rot fungi *Bjerkandera* in public sequence databases. *Journal of Microbiology and Biotechnology* 24: 1313–1319.
- 29) Park MS, **Fong JJ**, Lee H, Shin S, Lee S, Lee N, Lim YW (2014) Determination of coleopteran insects associated with spore dispersal of *Cryptoporus volvatus* (Polyporaceae: Basidiomycota) in Korea. *Journal of Asia-Pacific Entomology* 17: 647–651.
- 28) Park MS, Oh S-Y, Cho HJ, **Fong JJ**, Cheon W-J, Lim YW (2014). *Trichoderma songyi* sp. nov., a new species associated with pine mushroom in Korea. *Antonie van Leeuwenhoek* 106: 593–603.
- 27) Park MS, **Fong JJ**, Oh S-Y, Kwon KK, Sohn KH, Lim YW (2014) Marine-derived *Penicillium* in Korea: diversity, enzyme activity, and antifungal properties. *Antonie van Leeuwenhoek* 106: 331–345.
- 26) Park MS, Lee EJ, **Fong JJ**, Sohn JH, Lim YW (2014) A new record of *Penicillium antarcticum* from marine environments in Korea. *Mycobiology* 42: 109–113.
- 25) Park MS, Lee H, Oh S-Y, Jung PE, Seok SJ, **Fong JJ**, Lim YW (2014) Species delimitation of three species within the *Russula* subgenus *Compacta* in Korea: *R. eccentrica*, *R. nigricans*, and *R. subnigricans*. *Journal of Microbiology* 52: 631–638.
- 24) Lee WD, Lee H, **Fong JJ**, Oh S-Y, Park MS, Quan Y, Jung PE, Lim YW (2014) A checklist of basidiomycetous macrofungi of Mt. Oseo and five new records in Korea. *Mycobiology* 42: 132–139.
- 23) Oh SY, **Fong JJ**, Park MS, Chang L, Lim YW (2014) Identifying airborne fungi in Seoul, Korea using metagenomics. *Journal of Microbiology* 52: 465–472.
- 22) Min YJ, Park MS, **Fong JJ**, Quan Y, Jung S, Lim YW (2014) Diversity and saline resistance of endophytic fungi associated with *Pinus thunbergii* in coastal shelterbelts of Korea. *Journal of Microbiology and Biotechnology* 24: 324–333.
- 21) Park M-S, **Fong JJ**, Lee H, Oh S-Y, Jung PE, Min YJ, Seok SJ, Lim YW (2013) Delimitation of *Russula* subgenus *Amonoula* in Korea using three molecular markers. *Mycobiology* 41: 191–201.
- 20) Kim I, Kim J, **Fong JJ**, Park D (2013) Report of a dicephalic Steppes Ratsnake (*Elaphe dione*) collected in South Korea. *Asian Herpetological Research* 4: 182–186.
- 19) Bataille A, **Fong JJ**, Cha M, Wogan G, Baek H, Lee H, Min M, & Waldman B (2013) Genetic evidence for a high diversity and wide distribution of endemic strains of the pathogenic chytrid fungus *Batrachochytrium dendrobatidis* in wild Asian amphibians. *Molecular Ecology* 22: 4196–4209.

- 18) **Fong JJ**, Brown JM, Fujita MK, Boussau B (2012) A phylogenomic approach to the vertebrate phylogeny supports a turtle-archosaur affinity and a possible paraphyletic Lissamphibia. *PLoS One* 7: e48990.
- 17) **Fong JJ**, Fujita MK (2011) Evaluating phylogenetic informativeness and data-type usage for new protein coding genes across Vertebrata. *Molecular Phylogenetics and Evolution* 61: 300–307.
- 16) Xia Z-R, Li P-P, Gu H-X, **Fong JJ**, Zhao E-M (2011) Evaluating noninvasive methods of sex identification in Green Sea Turtle (*Chelonia mydas*) hatchlings. *Chelonian Conservation and Biology* 10: 117–123.
- 15) Lin R-C, Yeung C, **Fong JJ**, Tzeng H-Y, Li S-H (2011) The lack of pollinator specificity in a dioecious fig tree: sympatric fig-pollinating wasps of *Ficus septica* in southern Taiwan. *Biotropica* 43: 200–207.
- 14) He B, Liu Y, Shi H, Zhang J, Hu M, Ma Y, Fu L, Hong M, Wang J, **Fong JJ**, Parham JF (2010) Captive breeding of the Four-eyed Turtle (*Sacalia quadriocellata*). *Asian Herpetological Research* 1: 111–117.
- 13) Wong RA, **Fong JJ**, Papenfuss TJ (2010) Phylogeography of the African Helmeted Terrapin, *Pelomedusa subrufa*: Genetic structure, dispersal, and human introduction. *Proceedings of the California Academy of Sciences* 61: 575–585.
- 12) **Fong JJ**, Chen T-H (2010) DNA evidence for the hybridization of wild turtles in Taiwan: possible genetic pollution from trade animals. *Conservation Genetics* 11(5): 2061–2066.
- 11) **Fong JJ**, Qiao G-X (2010) New localities of endangered Chinese turtles from museum specimens and the practical and ethical challenges using and reporting natural history collection data. *Zootaxa* 2393: 59–68.
- 10) Liu, Y-x, Wang J, Shi H-t, Murphy RW, Hong M-l, He B, **Fong JJ**, Wang J-c, Fu L-r (2009) Ethogram of *Sacalia quadriocellata* (Reptilia: Testudines: Geoemydidae) in captivity. *Journal of Herpetology* 43: 318–325.
- 9) Gong S-P, Chow AT, **Fong JJ**, Shi H-T (2009) The chelonian trade in the largest pet market in China: scale, scope and impact on turtle conservation. *Oryx* 43: 213–216.
- 8) Shi H, **Fong JJ**, Parham JF, Pang J-f, Wang J, Hong M, Zhang Y-p (2008) Mitochondrial variation of the “eyed” turtles (*Sacalia*) based on known locality and trade specimens. *Molecular Phylogenetics and Evolution* 49: 1025–1029.
- 7) Hong M, Shi H, Fu L, Gong S, **Fong JJ**, Parham JF (2008) Scientific refutation of traditional Chinese medicine claims about turtles. *Applied Herpetology* 5:173–187.
- 6) Liu Y-x, He B, Shi H-t, Murphy RW, **Fong JJ**, Wang J-c, Fu L-r, Ma Y-g (2008) An analysis of courtship behavior in the four-eyed spotted turtle *Sacalia quadriocellata* (Reptilia: Testudines: Bataguridae). *Amphibia-Reptilia* 29: 185–195.
- 5) Lin H-C, Li S-H, **Fong J**, Lin S-M (2008) Ventral coloration differentiation and mitochondrial sequences of the Chinese Cobra (*Naja atra*) in Taiwan. *Conservation Genetics* 9:1089–1097.
- 4) **Fong JJ**, Parham JF, Shi H, Stuart BL, Carter RL (2007) A genetic survey of heavily exploited, endangered turtles: Caveats on the conservation value of trade animals. *Animal Conservation* 10: 452–460.
- 3) Macey JR, Schulte JA, **Fong JJ**, Das I, Papenfuss TJ (2006) The complete mitochondrial genome of an agamid lizard from the Afro-Asian subfamily Agaminae and the phylogenetic position of *Bufo niceps* and *Xenagama*. *Molecular Phylogenetics and Evolution* 39: 881–886.
- 2) Macey JR, **Fong JJ**, Kuehl JV, Shafiei S, Ananjeva NB, Papenfuss TJ, Boore JL (2005) The complete mitochondrial genome of a gecko and the phylogenetic position of the Middle Eastern *Teratoscincus keyserlingii*. *Molecular Phylogenetics and Evolution* 36: 188–193.
- 1) **Fong JJ**, Parham JF, Fu J (2002) A reassessment of the distribution of *Cuora flavomarginata* Gray 1863 On Mainland China. *Russian Journal of Herpetology* 9: 9–14.

Publications (Non Peer Reviewed)

- 3) **Fong JJ** (2009) Comments on the proposed conservation of usage of *Testudo gigantea* Schweigger, 1812 (currently *Geochelone (Aldabrachelys) gigantea*; Reptilia, Testudines) 19. *Bulletin of Zoological Nomenclature* 66(3): 280.
- 2) Gong S, Shi H, **Fong JJ**, Lau M (2009) Recent records of freshwater turtles from Guangdong, China. *Turtle and Tortoise Newsletter* 13: 24–27.
- 1) **Fong JJ** (2008) Linnaeus Fund Research Report: Conservation Genetics of the Yellow Pond Turtle (*Mauremys mutica*) and the Annam Leaf Turtle (*Mauremys annamensis*). *Turtle and Tortoise Newsletter* 12: 21–23.

Books & Book Chapters:

- 2) Shi H (Chief Ed.), Hou M, Pritchard P, Lau M, Wang J, Liu Y, Yeh F (Associate Chief Eds.), Peng J, Fan Z, Yin F, Chen T, van Dijk PP, Parham J, Fong J, Horne B, Zwartepoorte H, Schaffer C, Tucker J, Devaux B, Cadi A, Gong S, Lee KS (Eds.) (2013) Identification Manual for the Conservation of Turtles in China. Encyclopedia of China Publishing House, Beijing, 174 pp.
- 1) Shi H, Hou M, Pritchard P, Peng J, Fan Z, Yin F, Chen T, Liu H, Wang J, Liu Y (Eds.) (2008) Identification Manual for Traded Turtles in China. Contributors: van Dijk PP, Parham JF, **Fong J**, Horne B, Zwartepoorte H, Schaffer C, Tucker J, Devaux B, Cadi A, Gong S, Li G. Encyclopedia of China Publishing House, Beijing, 166 pp. (in Chinese)

Grants & Fellowships:

2016	Lingnan University	Fund for Academic Exchange with less Developed Economies of Asia (HK\$11,975)
2016	Lingnan University	Conference Grant (HK\$16,000)
2016	Research Grants Council	ECS General Research Fund (HK\$827,773)
2016	Croucher Foundation	Chinese Visitorship (HK\$144,000)
2015	Lingnan University CAOBE	Outcomes-based learning project (HK\$10,000)
2014	BK21 Plus	Postdoctoral Fellowship (US\$34,700)
2012	Seoul National University	Interdisciplinary Research Collaboration (US\$52,900)
2012	Korea National Research Foundation	Korea-China Collaborative Research (US\$26,500)
2012	IUCN Korea	IUCN World Conservation Congress (US\$13,000)
2011	Seoul National University & BK21	Postdoctoral Fellowship (US\$45,000)
2010	Museum of Vertebrate Zoology	Joseph Mallard Fellowship (US\$7,500)
2010	Museum of Vertebrate Zoology	Annie M. Alexander Fellowship (US\$11,000)
2010	National Science Foundation China	Major International Joint Research (US\$5,000)
2009	National Science Foundation China	Major International Joint Research (US\$117,000)
2009	National Science Foundation	DDIG (DEB 0909811) (US\$13,576)
2008	Fulbright IIE	Full Grant & Language Award—China (\$28,200)
2007	National Science Foundation	GK12 Fellowship (US\$30,000)
2007	Museum of Vertebrate Zoology	Carl B. Koford Memorial Fund (US\$2000)
2007	Chelonian Research Foundation	Linnaeus Fund (US\$1500)
2006	National Science Foundation	EAPSI—Taiwan (OISE 0611443) (US\$3,000)
2006	University of California, Berkeley	IB Summer Research Block Grant (US\$1000)
2005	National Science Foundation	EAPSI—China (OISE 0513230) (US\$3,000)
2005	Museum of Vertebrate Zoology	Carl B. Koford Memorial Fund (US\$2000)
2002	Chelonian Research Foundation	Linnaeus Fund (US\$1000)

Awards and Honors:

2016	CAOBE Award	Significant Faculty Contribution to OBE
2007	TSA & TFTSG Annual Meeting	Best Student Paper
2006	University of California, Berkeley	Outstanding Graduate Student Instructor

Teaching Experience:

2015–pres	Lingnan University Understanding Evolution, Life Sciences	Assistant Professor
2013–2015	Seoul National University, Korea General Biology 1, General Biology 2, Biodiversity & Environment, Phylogenetics (graduate), Scientific Writing (graduate)	Lecturer
2012–2015	Hongcheon High School, Korea (9 th grade–age 15)	Science Program Teacher
2012–2013	Bopyung High School, Korea (9 th grade–age 15)	Science Program Teacher
2004–2010	University of California, Berkeley, USA General Biology (BIO1B)—4 semesters Herpetology Laboratory (IB175L)—1 semester	Grad Student Instructor
2009	Piedmont Middle School, USA (6 th grade–age 11)	Instructor
2007–2008	Adams Middle School, USA (7 th grade–age 12)	Science Program Teacher
2006–2008	University of California, Berkeley, USA	Undergraduate Mentor
1999–2000	Longfellow Middle School, USA (7 th grade–age 12)	Teacher’s Assistant
1998–1999	Fred Finch Youth Center, USA (age 8–15)	Activities Coordinator
1997–1998	Egbert W. Beach Elementary School, USA (2 nd grade–age 7)	Teacher’s Assistant

Past Scientists Trained and Supervised:

Paul Eunil Jung	Seoul National University	M.S. thesis
Wondong Lee	Seoul National University	M.S. thesis
Young Ju Min	Seoul National University	M.S. thesis
Yu-xiang Liu	Hainan Normal University	M.S. thesis
Meiling Hong	Hainan Normal University	M.S. thesis
Robyn Wong	UC Berkeley	B.A. Senior thesis
Shavon Crawford	DOE Joint Genome Institute	Undergraduate

Journal Reviewer

Animal Cells and Systems, Asiatic Herpetological Research, Biochemical Genetics, Biochemical Systematics and Ecology, Chelonian Conservation and Biology, Frontiers in Ecology and Evolution, The Herpetological Journal, Integrative Zoology, Iranian Journal of Applied Animal Science, Journal of Asia-Pacific Biodiversity, Journal of Ecology and Evolution, Journal of Zoological Systematics and Evolutionary Research, Korean Journal of Herpetology, Molecular Biology Reports, Oryx, PeerJ, PLoS One, Tropical Conservation Science, Zoological Studies, Zootaxa.

Society Affiliations

IUCN/SSC Tortoise and Freshwater Turtle Specialist Group
Korean Research Society of Herpetologists